```
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
```

OM protein - protein search, using sw model

March 17, 2006, 12:34:34 Run on:

// Search time 26 Seconds
(without alignments)
1990.576 Million cell updates/sec

Title: Perfect score:

US-10-608-863-2 3337 1 MPCVQAQYSPSPPGSSYAAQ......BDLVSPPSIIDKLFLDTLPF Sequence:

626

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

572060 seqs, 82675679 residues Searched:

572060 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

/cgn2\_6/ptodata/1/iaa/5\_COMB.pep:\*
/cgn2\_6/ptodata/1/iaa/6\_COMB.pep:\*
/cgn2\_6/ptodata/1/iaa/H\_COMB.pep:\*
/cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep:\*
/cgn2\_6/ptodata/1/iaa/RE\_COMB.pep:\*
/cgn2\_6/ptodata/1/iaa/RE\_COMB.pep:\* Issued\_Patents\_AA:\*
1: /cgm2\_6/ptodata/1
2: /cgm2\_6/ptodata/1
3: /cgm2\_6/ptodata/1
4: /cgm2\_6/ptodata/1
5: /cgm2\_6/ptodata/1
6: /cgm2\_6/ptodata/1

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description	Sequence 9660, Ap	6776,	Sequence 6699, Ap	10338,		7		8		4	4	Sequence 7, Appli	7	4	11	Patent No. 5171671	Sequence 4, Appli	ď	Sequence 4, Appli	116	ď	ģ	9	10,	4	7	98
SUMMARIES	ID	US-09-949-016-9660	US-09-949-016-6776	US-09-949-016-6699	US-09-949-016-10338	US-09-949-016-10263	US-09-277-078-2	US-07-952-800-2	.US-09-949-016-8178	US-08-592-383-2	US-08-095-728B-4	PCT-US92-02320A-4	US-08-764-870-7	US-08-980-115-7	US-08-216-592A-4	US-09-949-016-11572	5171671-2	US-07-952-800-4	US-08-216-592A-2	US-08-592-383-4	US-09-949-016-11665	US-08-336-408B-2	US-08-764-870-6	US-08-980-115-6	US-10-329-668-10	US-09-590-447-4	PCT-US91-00399-2	US-09-949-016-9851
	038	8	0	~	~	N	N	-	ς.	-	-	4	7	~	۲3	7	ø	-	N	-	~	-	N	~	~	7	4	7
	Length	697	626	598	617	641	300	533	448	462	462	462	525	525	533	577	462	446	448	403	454	462	462	462	462	462	462	503
de	Query	100.0	99.4	52.5	52.5	41.0	19.8	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.8	15.7	15.7	15.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
	Score	3337	3316	1751	1751	1367	659.5	533.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	530.5	527.5	525.5	524.5	516	502	502	502	502	502	502	502	500.5
	Result No.	П	8	m	4	ស	9	7	œ	σ	10	11	12	13	14	15	16	17	18	19	50	21	22	23	24	25	56	27

120

SSPEDEVLPSTSMYPKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES

121

181

8 8 8

QQ

ð

ð

19

ò

g ò

FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHQQQHQQPSIPPA

180

251 240

Sequence 8941, Ap Sequence 8942, Ap	Seguence 6009, Ap Patent No. 5223606	Sequence 8939, Ap Sequence 8940, Ap	Sequence 6, Appli	Sequence 6, Appli	Sequence 4, Appli	Sequence 6, Appli	Sequence 4, Appli	Sequence 5, Appli	Sequence 5, Appli	Patent No. 5260432	Sequence 4, Appli	8	Sequence 4, Appli	Sequence 4, Appli
US-09-949-016-8941 US-09-949-016-8942	US-09-949-016-6009 5223606-2	US-09-949-016-8939 US-09-949-016-8940	US-08-336-408B-6	PCT-US91-00399-6	US-08-336-408B-4	US-08-216-592A-6	PCT-US91-00399-4	US-08-764-870-5	US-08-980-115-5	5260432-2	US-09-691-220-4	US-08-216-592A-8	US-08-764-870-4	US-08-980-115-4
00	0 10	~ ~	н	4		~	4	~	N	9	ď	N	N	~
454	448 448	459 459	463	463	467	467	467	454	454	454	459	463	416	416
15.0	15.0	15.0	14.9	14.9	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.7	14.7
499.5	4. 4. 9. 9. 9. 9.	4 4 9 9 9	498.5	498.5	495	495	495	494.5	494.5	494.5	493.5	492.5	491	491
28	31	33 33	34	32	36	37	38	39	40	41	42	43	44	45

## ALIGNMENTS

RESULT 1 US-09-949-016 Sequence 96 Patent No. GENERAL INF APPLICANT: TITLE OF I TITLE OF I TITLE OF I FILE REPERY CURRENT PI PRIOR APPL PRIOR PILLI PRIOR APPL PRIOR PILLI	RESULT 1 US-09-949-016-9660 US-09-949-016-9660 Sequence 9660, Application US/09949016 Fatent No. 681233 GENERAL INFORMATION: TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF TITLE OF INVENTION: WINDER: US/09/949,016 CURRENT FILING DATE: 2000-04-14 PRIOR FILING DATE: 2000-10-03 TRUBHER OF SEQ ID NOS: 207012 SEQ ID NO 9660 LENGTHARE: PRICE PRICE AND
Query Match Best Local Matches 62	Query Match 100.0%; Score 3337; DB 2; Length 697; Best Local Similarity 100.0%; Pred. No. 6.1e-249; Matches 626; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
<i>장</i> 名	1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST 60

```
Sequence 6699, Application US/09949016

| Sequence 6699, Application US/09949016
| Patent No. 6812339
| BATELIAN NO. 6812339
| GENERAL INFORMATION:
| APPLICANT: VENTER, J. Craig et al.
| TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF FILE REFERENCE: CL001307
| CURRENT APPLICATION NUMBER: 00/241,755
| PRIOR PILING DATE: 2000-10-20
| PRIOR APPLICATION NUMBER: 60/241,755
| PRIOR FILING DATE: 2000-10-03
| PRIOR PILING DATE: 2000-10-03
| PRIOR PILING DATE: 2000-10-03
| PRIOR PILING DATE: 2000-08
| NUMBER OF SEQ ID NOS: 207012
| SQTWARE: FastSEQ for Windows Version 4.0
| SQTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SISTFVEGYSSNYELKPSCVYQM----QRPLIKVEEGRAPSYHHHHHHHHHHHHHQQQH 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           106 ----LPPQS---EEMMPHSGSVYYKPSSPPTPTFGFQVQHSPMWDD------PGS 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --PSPAG 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GHHLGYDPTAAAALSLPLGAAAAAGSQAAALESHPYGLP-LAKRAAPLAFPPLGLTPSPT 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   113 QOPSIPPASSPEDEVLP-STSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGP 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE
                                                                                          VVRTDSLKGRRGRLFSKPKSPLQGEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                COHYGVRICEGCKGFFKRIVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE
                                                                                                                                                                                                                                                                                                                                                                   SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                     PIDQAAAGIDAEHVQQFYNLLIASIDVSRSWAEKIPGFIDLPKEDQILLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MPCVQAQYSPSPPGSSYAAQTY---SSEYTTEIMNPDYTKLTMDLGSTEITATATTSLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 52.5%; Score 1751; DB 2; Length 598; Best Local Similarity 54.5%; Pred. No. 1.1e-126; Matches 363; Conservative 74; Mismatches 121; Indels 108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SPSITFMDNYSIGYDVXPPCLYQMPLSGQQSSIKVEDIQMHNYQQHSH--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LLDPPMKAVPT-----VAGARFPLFHFKPSPHPPA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                              601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SHHV---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 3
US-09-949-016-6699
                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209
                                                                                          361
                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             57
    301
                                               301
                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                 qq
                                                                                                                                                                                                                                                                                                                                                                                                     qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                              셤
                                                                                                                                                                                   Š
                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ଚ
                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 6776, Application US/09949016

| Sequence 6776, Application US/09949016
| Patent No. 6812339
| GENERAL INFORMATION:
| APPLICANT: VEXTER, J. Craig et al.
| APPLICANT: VEXTER, J. Craig et al.
| APPLICANT: VEXTER, J. Craig et al.
| TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
| TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
| CURRENT APPLICATION NUMBER: 60/241,755
| PRIOR FILING DATE: 2000-10-20
| PRIOR FILING DATE: 2000-10-03
| PRIOR APPLICATION NUMBER: 60/231,768
| PRIOR APPLICATION NUMBER: 60/231,498
| PRIOR PRILING DATE: 2000-09-08
| WUMBER OF SEQ ID NOS: 207012
| SEQ ID NO STORES IN TOTAL STORES IN TOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                     420
                                                                                                                  491
                                                                                                                                                               480
                                                                                                                                                                                                          551
                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                   611
                                                                                                                                                                                                                                                                                                                                                900
                                                                                                                                                                                                                                                                                                                                                                                           671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSGEGTCAVCGDNAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA 300
                          431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09
VVRTDSIKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                                                                      PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES
                                                                                                                                                               PTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                          PTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                                                     RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                  SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MPCVQAQYSPSPPGSSYAAQTYSSEYTTBIMNPDYTKLTMDLGSTBITATATTSLPSIST
                                                                       VVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 626;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 99.4%; Score 3316; DB 2; Best Local Similarity 99.4%; Pred. No. 2.2e-247; Matches 622; Conservative 1; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                        626
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-949-016-6776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-949-016-6776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                  432
                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                           612
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                     361
                                                                                                                                                             421
                                                                                                                                                                                                        492
                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                     552
                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                       372
                                                                                                         d
                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                8
                                                                                                                                                        ò
                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
```

360

480

420

540 540 9 18;

28



```
Sequence 10263, Application US/09949016
Fatent No. 6812339
GENERAL INFORMATION:
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
FILE REFERENCE: CLOO1307
CURRENT PRING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR PILING DATE: 2000-10-20
PRIOR FILING DATE: 2000-10-09
PRIOR FILING DATE: 2000-10-09-08
NUMBER OF SEQ ID NOS: 207012
NUMBER OF SEQ ID NOS: 207012
SEQ ID NO 10263
                                                                                                                                                                                                                                                                                       SIDVSRSWAEKIPGFTDLPKEDQTLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHR 503
                                                                                                                              316
LHNFHQNYVATTHMIEQRKTPVSRLSLFSFKQSPPGTPVSSCQMRFDGPLHVPMNPEPAG 227
                                                                                                                                                            VCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKEVVRTDSLKGRRGRLPSKPKSPLQQEP 386
                                                                                                                                                                                              371
                                                                                                                                                                                                                          SOPSPPSPPICMMNALVRALTDSTP--RDLDYSRY-CPTDQAAAGTDAEHVQQFYNLLTA 443
                                                                                                                                                                                                                                             563
                                                                                                                                                                                                                                                                                                                                                                           620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             58 ISTRVEGYSSNYELKPSCVYQMQ---RPLIKVEEGRAPSYHHHHHHHHHHHHHQQQHQQ 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               53
                                                                                                                -----VDGQTFAVPNPIRKPASMGFPGLQI---GH
                                                                                                                                                                                                                                                                                                                                                           LOCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSALSMITERHGLKEPKRVEELCNKIT
                                GHHLGYDPTAAAALSLPLGAAAAAGSQAAALESHPYGLP-LAKRAAPLAFPPLGLTPSPT
                                                                                              ASSLIGESPSLPSPSRSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKY
                                                                                                                                                                             | SSLKDHQ--SKGQALEPTE-SKVLGALVELRKICTLGLQRIFYLKLEDLVSPPSIIDKLF
                                                                                                                                                                                                                                                                                                                                                                                                                                           44 MPCIQAQYGTPAPSPGPRDHLA ----SDPLTPEFIKPTMDLASPEAAPAAPTALPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MPCVQAQY --- SPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels 112;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            115 PSIP-PASSPEDEVLPSTSMYFKQSPPS--TPTTPAF-PPQAG---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41.0%; Score 1367; DB 2;
llarity 47.5%; Pred. No. 4.8e-97;
Conservative 74; Mismatches 165;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 317; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 5
US-09-949-016-10263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; ORGANISM: Human
US-09-949-016-10263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       621
                              208
                                                                228
                                                                                              267
                                                                                                                            259
                                                                                                                                                          327
                                                                                                                                                                                                                          387
                                                                                                                                                                                                                                                                                                                                                                                         492
                                                                                                                                                                                                                                                                                           444
                                                                                                                                                                                                                                                                                                                         432
                                                                                                                                                                                                                                                                                                                                                                                                                         564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      612
                                                                                                                                                                                                                                                                                                                                                         504
                       ò
                                                       8 S
                                                                                                                    셤
                                                                                                                                                     8
                                                                                                                                                                                     g
                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 10338, Application US/09949016
Fatent No. 6812339
GENERAL INFORMATION:
FATENCE NO. 6812339
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
TITLE OF INVENTION UNMER: 00/241,755
CURRENT FILING DATE: 2000-04-14
FRIOR FILING DATE: 2000-10-20
FRIOR PELLORATION NUMBER: 60/241,755
FRIOR PELLORATION NUMBER: 60/241,755
FRIOR PELLORATION NUMBER: 60/241,498
FRIOR PELLOR DATE: 2000-10-03
FRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 2077012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10338
                                                                                                                                                                                                                                                                                                                                                                      592
                                                                                                                                     387 SQPSPPSPPICMMNALVRALTDSTP--RDLDYSRY-CPTDQAAAGTDAEHVQQFYNILTA 443
                                                                                                                                                          503
                                                                                                                                                                                                                         ASSLIGESPSIPSPSRSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKY 326
                                                                        VCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKEVVRTDSLKGRRGRLPSKPKSPLQQEP 386
                                                                                                                                                                                                                                                                     LOCLRGFGEWLDSIKDFSLANLQSLALDIQALACLSALSMITERHGLKEPKRVEELCNKIT 563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SISTFVEGYSSNYELKPSCVYQM----QRPLIKVEEGRAPSYHHHHHHHHHHHHHQQQH 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            113 QOPSIPPASSPEDEVLP-STSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGP 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -- PSPAG 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 MPCVQAQYGSSPQGASPASOSYSYHSSGEYSSDFLTPEFVKFSMDLTNTEI--TATTSLP 77
                              298 VCLANKNCPVDKRRRNRCQYCRFQKCLAVGMVKEVVRTDSLKGRRGRLPSKPKS----P
                                                                                                                                                                                                      SIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHR
                                                                                                                                                                                                                                                                                                                                                       1 MPCVQAQYSPSPPGSSYAAQTY----SSEYTTEIMNPDYTKLTMDLGSTEITATATTSLP
                                                                                                                                                                                                                                                                                                                                     SSLKDHQ--SKGQALEPTE-SKVLGALVELRKICTLGLQRIFYLKLEDLVSPPSIIDKLF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           52.5%; Score 1751; DB 2; Length 617;
54.5%; Pred. No. 1.1e-126;
ive 74; Mismatches 121; Indels 108;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       172 LLDPPMKAVPT-----VAGARFPLFHFKPSPPHPPA----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 54.51
Matches 363; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                   598
                                                                                                                                                                                                                                                                                                                                                                                                     LDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                LDTLPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Human
US-09-949-016-10338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 4
US-09-949-016-10338
                                                                        327
                                                                                                                                                                                                      444
                                                                                                                                                                                                                                                                     504
                                                                                                                                                                                                                                                                                                                                   564
                                                                                                                                                                                                                                                                                                                                                                     533
                                                                                                                                                                                                                                                                                                                                                                                                     621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         125
                                     셤
                                                                      ò
                                                                                            g
                                                                                                                                   8
                                                                                                                                                            셤
                                                                                                                                                                                              ठे
                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                d
                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

셤

Š

පු

ઠે

ъ д

```
118 PPASSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPM 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               178 KAVPTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAA 237
   113 QOPSIPPASSPEDEVLP-STSMYFKOSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGP 171
                                                                                                          149 LHNFHQNYVATTHMIEQRKTPVSKLSLFSFKQSPPGTPVSSCQMRFDGPLHVPMNPEPAG 208
                                                                                                                                                                    240 ASQLL--DIQVPSPPSRGSPSNEGLCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKY
                          208 GHHLGYDPTAAAALSLPLGAAAAAGSQAAALESHPYGLP-LAKRAAPLAFPPLGLTPSPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               83 PDSSSPNP--LP-----QGVPPPSPPGPPLPPSTA------PSLGGSGAPPP---PPM
                                                                                                                                                                                                                    267 ASSLIGESPSIPSPSRSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: OZATO, KEIKO
TITLE OF INVENTION: A NEW MEMBER OF THE NUCLEAR HORMONE
TITLE OF INVENTION: RECEPTOR SUPERFAMILY AND A CDNA CLONE THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: TOWNSEND AND TOWNSEND
STREET: 1 MARKET PLAZA, STEUART TOWER, SUITE 2000
CITY: SAN FRANCISCO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16.0%; Score 533.5; DB 1;
29.7%; Pred. No. 7.3e-33;
tive 70; Mismatches 189;
                                                                          172 LLDPPMKAVPT-----VAGARFPLFHFKPSPPHPPA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/952,800
FILING DATE: 1920928
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 15280-21-1
TELEPHONE: 415-543-9600
TELEPAX: 415-543-9600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15280-21-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
CMEDUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                US-07-952-800-2; Sequence 2, Application US/07952800; Patent No. 5403925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 533 amino acids TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 415-543-5043
INPORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 151; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               / MOLECULE TYPE: protein US-07-952-800-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                 ---- VHHS 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                       298 VCL 300
                                                                                                                                                                                                                                                                                           327 VCL 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                         g
                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                      요
                                                                        ð
                                                                                                        셤
                                                                                                                                             ò
                                                                                                                                                                                                                                                                                         ð
G----ESPSLPSPPSRSSSG--EGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAK 325
                                                                                                                                                                                                                                                                                           442
                                                                                                                                                                                                                                                                                                                                                                               454
                                                                                                                                                                                                                                                                                                                                                                                                                  502
                                                                                                                                                                                                                                                                                                                                                                                                                                                      514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SISTFVEGYSSNYELKPSCVYQM----QRPLIKVEEGRAPSYHHHHHHHHHHHHHHQQQH 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     154 -ALWDEALPSAPGCIAPGPLLDPPMKAVPTVAGARFPLFHFKPSPPHPPAPSPAGGHHLG 212
                                                                                                                            213 YDPTAAAALSL-PLGAAAAGSQAAALESHPYGLPLAKRAAPLAFPPLGLTPSPTASSLL 271
                                                                                                                                                                                                                      285 GSGILDTP-VTSTKARSGAPGGSEGRCAVCGDNASCQHYGVRTCEGCKGFFKRTVQKNAK 343
                                                                                                                                                                                                                                                                        YVCLANKNCPVDKRRRNRCQYCRPQKCLSVGMVKEVVRTDSLKGRRGRLPSKPKSPLQQE 385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TSSLKDHQSKGQALEPTE----SKVLGALVELRKICTLGLQRIFYLKLEDLVSPPSIIDK 618
                                                                                                                                                              ---LAQSPLKLFPSQATHQLG-----EGESYSM-----PTAFPGL----APTSPHLE 284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26
                                                                                                                                                                                                                                                                                                                                                                    RLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSALSMITERHGLKEPKRVEELCNKI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            386 PSQPSPPSPPICMMALVRALTDSTP--RDLDYSRYCPTDQAAAG-TDAEHVQQFYNLLT
                                                                                                                                                                                                                                                                                                                                                                                                                  443 ASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MPCVQAQYSPSPPGSSYAAQTY----SSEYTTEIMNPDYTKLTMDLGSTEITATATTSLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
19.8%; Score 659.5; DB 2; Length 300;
Best Local Similarity 41.6%; Pred. No. 6.6e-43;
Matches 151; Conservative 41; Mismatches 74; Indels 97;
                                                                              Sequence 2, Application US/09277078

Patent No. 6312949

GENERAL INFORMATION:
APPLICANT: Sakurada, Kazuhiro
APPLICANT: Palmer, Theo
TITLE OF INVENTION: REGULATION OF TYROSINE HYDROXYLASE
TITLE OF INVENTION: EXPRESSION
TITLE OF INVENTION: EXPRESSION
TITLE OF INVENTION: EXPRESSION
CURRENT APPLICATION NUMBER: US/09/277,078
CURRENT FILING DATE: 1999-03-26
NUMBER OF SEQ ID NOS: 60
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :|:|||||
634 IFMDTLPF 641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-277-078-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-277-078-2
                                                                                                                                                              245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     619
                                                                                                                                                                                                 272
                                                                                                                                                                                                                                                                        326
                                                                                     셤
                                                                                                                                                        g
                                                                                                                                                                                              ð
                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                    ò
                                                                                                                           ò
                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                               ò
```



17;

نا

```
Appl
Appl
Appl
Appl
Appl
Appli
Appli
Appl
                                                                   // Search time 74 Seconds
(without alignments)
3534.610 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence Sequence Sequence
                                                                                                                    US-10-608-863-2
3337
1 MPCVQAQYSPSPPGSSYAAQ......EDIVSPPSIIDKLFLDTLPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                          Published Applications AA Main:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                   1867569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-608-863-2

US-09-853-386-64

US-09-853-386-65

US-09-853-386-96

US-09-853-386-96

US-09-853-386-96

US-09-853-386-116

US-09-853-386-170

US-09-853-386-170
                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                          1867569 segs, 417829326 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUMMARIES
                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                            - protein search, using sw model
                                                                     March 17, 2006, 13:00:04
                                                                                                                                                                     BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                        Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3333
3333
3333
3316
3329
3299
3133
3133
3123
3123
3074
                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3054.5
3054.5
2099.5
2099.5
1751
1751
1751
1751
1751
                                                                                                                                 Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3074
                                              OM protein
                                                                                                                                               Sequence:
                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                              Database
                                                                      Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š.
```

Sequence 82, App]	US-10-205-951-82	98 4	52.0
Sequence 40, Appl	US-09-853-386-40	98 3	52.0
Sequence 1, Appli	US-10-487-176-1	98 2	52.3
Sequence 87, Appl	US-10-205-951-87	598 4	
	US-10-205-951-78	98 4	52.3
	US-10-205-951-77	98 4	52.3
Sequence 74, App.	US-10-205-951-74	98 4	52.3
Sequence 45, Appl	US-09-853-386-45	98 3	52.3
Sequence 36, App]	US-09-853-386-36	98 3	52.3
Sequence 35, App.	US-09-853-386-35	98 3	52.3
Sequence 32, App.	US-09-853-386-32	98 3	52.3
Sequence 4, Appli	US-10-837-182-4	98 5	52.5
Sequence 4, Appl	US-10-611-310-4	98 4	52.5
Sequence 175, App	US-10-247-671-175	98 4	52.5
Sequence 2, Appli	US-10-221-909-2	98 4	52.5
Sequence 83, App.	US-10-205-951-83	98 4	52.5
Sequence 81, App.	US-10-205-951-81	98 4	52.5
Sequence 80, App.	US-10-205-951-80	98 4	52.5

		ALLERGIC DISEASES, A		
		FOR		
RESULT 1 US-10-608-863-2 ; Sequence 2, Application US/10608863 ; Publication No. US20040214192A1	g <del>r</del>	; AFFLICANT: SAITO, HITODIBA; TITLE OF INVENTION: METHODS FOR EXAMINATION FOR ALLERGIC DISEASES, TITLE OF INVENTION: ALLERGIC DISEASE; FILE REFERENCE: 3462.1003-000; CURRENT APPLICATION NUMBER: US/10/608,863	; CURRENT FILING DATE: 2003-06-27 ; PRIOR APPLICATION NUMBER: JP 2002-188490 ; PRIOR FILING DATE: 2002-06-27 ; NUMBER OF SEQ ID NOS: 18 ; SOFTWARE: PatentIn Ver. 2.0	; SEQ ID NO 2 ; LENGTH: 626 ; TYPE: PRT ; CRGANISM: Homo sapiens US-10-608-863-2

AND DRUGS FOR TREA

ö

Gaps

ö

Length 626; Indels

Query Match 100.0%; Score 3337; DB 4; Best Local Similarity 100.0%; Pred. No. 2.5e-217; Matches 626; Conservative 0; Mismatches 0;

9 9 180

1 MPCVQAQYSPSPPGSSXAAQTYSSEXTTEIMNPDYTKLIMDLGSTEITATATTSLPSIST

셤

ò

g

ð

1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST

121 SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180

PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES 181 PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAALSLPLGAAAAGSQAAALES

181

ò

셤

8

ď

g

ò

ઠ

121 SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV

240

ò g ò 셤 8 셤 g ò a

ò

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 HPYGLPLAKRAAPLAPPPLGLTPSPTASSLLGBSPSLPSPPSRSSSGEGTCAVCGDNAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CQHYGVRICEGCKGFFKRIVQKWAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE 360
                             360
                                                                                     420
                                                                                                                                                                                                    480
                                                                                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE
                                                                                                                  PTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                     WRIDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALIDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                RESIRSNTAEDKFVFCNGLVEHREGCERGFGEWEDSIKDFSENEGSENEDIQALACESAL
                                                                                                                                                                                                                                                                                                                                                                  RESIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                    PIDQAAAGIDAEHVQQFYNLLTASIDVSRSWAEKIPGFIDLPKEDQILLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                                                                                                SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-414-080-14

| Sequence 14, Application US/10414080
| Sequence 14, Application US/10414080
| Sequence 10, Application US/20302202881
| Sequence 10, Application No. US20302202881
| Sequence 10, Application No. US20302202881
| APPLICANT: WULLICAN, SHANNON E. APPLICANT: CONNEELY, ORLA M. APPLICANT: MILBRANDT, JEFREX
| TITLE OF INVENTION: ANTI-LEUKEMIA THERAPY | FILE OF INVENTION: ANTI-LEUKEMIA THERAPY | FILE REPERENCE: PO2454031 | CURRENT APPLICATION NUMBER: US/10/414,080 | CURRENT APPLICATION NUMBER: 0503-04-15 | PRIOR APPLICATION NUMBER: 60/373,238 | PRIOR APPLICATION NUMBER: 60/373,238 | NUMBER OF SEQ ID NOS: 36 | SEQ ID NOS: 36 | SEQ ID NOS: 36 | SEQ ID NOS: 26 | SEQ ID NOS: 20 | SEQ ID NOS: 26 | SEQ ID N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99.9%; Score 3333; DB 4; Length 626; 99.8%; Pred. No. 4.7e-217; tive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 625; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
CORGANISM: Homo sapiens
US-10-414-080-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                     361
                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                   301
                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                   g
                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                          ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 64, Application US/09853386;
Patent No. US20020049151A1
GENERAL INFORMATION:
APPLICANT: Breanthan, Barry
APPLICANT: Conneely, Orla
TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR;
TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR;
TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
TITLE OF INVENTION: UNMER: US/09/853,386
CURRENT APPLICATION NUMBER: US/09/853,386
CURRENT APPLICATION NUMBER: US/09/853,386
CURRENT APPLICATION NUMBER: US/09/853,386
CURRENT PILING DATE: 2000-05-12
PRIOR APPLICATION NUMBER: US/09/853,386
SOFTWARE PILING DATE: 2000-05-12
SOFTWARE PILING DATE: 2000-05-12
SOFTWARE: PATENT OF US SEQ ID NOS: 153
SEQ ID NO 64
LENGTH: 626
                                                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                     420
                                                                                                                                            420
                                                                                                                                                                                                    480
                                                                                                                                                                                                                                    PIDQAAAGIDAEHVQQFYNLLIASIDVSRSWAEKIPGFIDLPKEDQILLIESAFLELFVL 480
                                                                                                                                                                                                                                                                                                                                                                        540
                                                                                                                                                                                                                                                                                                                                                                                                                                900
                                                                                                                                                                                                                                                                                                                                                                                                                                                             541 SMITERHGLKEPKRVBELCNKITSSLKDHQSKGQALBPTESKVLGALVELRKICTLGLQR 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHHQQQQQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHQQQQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPWKAV 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALEG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
CQHYGVRTCEGCKGFFKRTVQKNAKYYCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE
                                                                                                                     361 VVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                 RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MPCVQAQXSPSPPGSSYAAQTXSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLIMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA
                                                                                                                                                                                                    PIDQAAAGIDAEHVQQFYNLLTASIDVSRSWAEKIPGFIDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                                                                                                SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES
                                                                                     VVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 626;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 99.9%; Score 3333; DB 3; Best Local Similarity 99.8%; Pred. No. 4.7e-217; Matches 625; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 2
US-09-853-386-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-853-386-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19
                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301
                                                                                     361
                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601
                                301
```

ò 셤 ò g 8 셤 ò 셤 à

음 상과

```
| APPLICANT: Murphy, Evelyn | APPLICANT: Murphy, Evelyn | APPLICANT: Murphy, Evelyn | APPLICANT: Bresnihan, Barry | APPLICANT: Bresnihan, Barry | APPLICANT: Conneely, Orla | APPLICANT: Conneely, Orla | APPLICANT: Conneely, Orla | APPLICANT: Fitzgerald, Ollyer | TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR | TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors | FILE REFERENCE: PO1972USI | CURRENT APPLICATION NUMBER: US/09/853,386 | CURRENT APPLICATION NUMBER: US 60/203645 | PRIOR FILING DATE: 2000-05-11 | PRIOR FILING DATE: 2000-05-12 | SOFTWARE: Patentin version 3.1 | SEQ ID NO 96 | LENGTH: 626 | LENGTH: 
                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                           900
      301 CQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE 360
                                                    420
                                                                               VNTTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPTCMMNALVRALTDSTPRDLDYSRYC 420
                                                                                                                                        480
                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SSPEDEVLPSTSWYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHHHHQQQQQQQQQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241 HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSGEGTCAVCGDNAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKB 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                              481 RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                      541 SMITERHGLKEPKRVEELCNKIISSLKDHQSKGQALEPNESKVLVALVELKKICTLGLQR
                                                 WARTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                                   PTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                         RISIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                             SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 626;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 3316; DB 3;
Pred. No. 6.6e-216;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 96, Application US/09853386; Patent No. US20020049151A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 99.4<sup>†</sup>
Matches 622; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-853-386-96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-853-386-96
                                                                                                                                                                            421
                                                                                          361
                                               361
                                                                                                                                   421
                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                           셤
                                      ò
                                                                               ብ &
                                                                                                                                                                   셤
                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   음 & 음 :&
                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 65, Application US/09853386

Patent No. US2020049151A1
GENERAL INFORMATION:
APPLICANT: Bresnihan, Barry
APPLICANT: Corneely, Orla
TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
CURRENT APPLICATION NUMBER: US/09/853,386
CURRENT FILING DATE: 2000-05-12
PRIOR APPLICATION NUMBER: US 60/203645
PRIOR PLING DATE: 2000-05-12
NUMBER OF SEQ ID NOS: 153
SOFTWARE: PatentIn Version 3.1
SEQ ID NO 65
LENGTH: 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                         009
                                                                                                                                                                                                                       540
                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                    600
CQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGBSPSLPSPPSRSSSGGEGTCAVCGDNAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CQHYGVRICEGCKGFPKRIVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMYKE 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                    SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                           VVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                    SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 3; Length 626;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tch 99.4%; Score 3316; DB 3; al Similarity 99.4%; Pred. No. 6.6e-216; 622; Conservative 1; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                               626
                                                                                                                                                                                                                                                                                                                                                                                                                        IFYLKLEDLVSPPSIIDKLFLDTLPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JS-09-853-386-65
                                                                                                                                                                                                                                                                                                                                                                                          601
  301
                                           361
                                                                                                                                                                       421
                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Loca
Matches
                                                                                 g
                                                                                                                                                                                                                                                                                                                                           a
                                        ઠે
                                                                                                                   ò
                                                                                                                                                            D
                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                              a
a
                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ያ ዓ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ર્જ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

```
APPLICANT: Murphy, Evelyn
APPLICANT: Murphy, Evelyn
APPLICANT: Bresnihan, Barry
APPLICANT: Conneely, Oliver
TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
FILER REPRENCE: P01972US1
FILER REPRENCE: P01972US1
CURRENT APPLICATION NUMBER: US/09/853,386
CURRENT FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: US 60/203645
PRIOR FILING DATE: 2000-05-12
NUMBER OF SEQ ID NOS: 153
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 FVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 SSPEDEVLPSTSMYFKQSPPSTPTTPAPPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV
                                                                                                                                                                      181 PTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDFTAAAALSLPLGAAAAGSQAAALEG
                                                                                                                                                                                                                                                 241 HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA
                                                                                                                                                                                                                                                                                                                                                 481 RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNDDYTKLIMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                          COHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE
                                                                                                                                                                                                                                                                                                                                                                                                                          VVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PIDQAAAGIDAEHVQQFYNLLIASIDVSRSWAEKIPGFIDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                       HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSGEGTCAVCGDNAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   98.9%; Score 3299.5; DB 3; Length 625; 99.2%; Pred. No. 8.6e-215; ive 1; Mismatches 3; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 63, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 621; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 7
US-09-853-386-63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-853-386-63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 63
LENGTH: 625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                 g
                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                    ò
                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:

APPLICANT: Zhong et al.

TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFREENCE: 21402-608

CURRENT APPLICATION NUMBER: 05/295,607

PRIOR APPLICATION NUMBER: 60/295,607

PRIOR APPLICATION NUMBER: 60/295,601

PRIOR PLING DATE: 2001-06-04

PRIOR PLING DATE: 2001-06-06

PRIOR PLING DATE: 2001-06-06

PRIOR PLING DATE: 2001-06-06

PRIOR PLING DATE: 2001-06-06

PRIOR PLING DATE: 2001-06-12

PRIOR APPLICATION NUMBER: 60/297,414

PRIOR PLING DATE: 2001-06-12

PRIOR APPLICATION NUMBER: 60/297,567

PRIOR APPLICATION NUMBER: 60/297,567

PRIOR PLING DATE: 2001-06-12

PRIOR APPLICATION NUMBER: 60/299,949

PRIOR FILING DATE: 2001-06-12

PRIOR PLING DATE: 2001-06-14

PRIOR PLING DATE: 2001-06-15

PRIOR PLING DATE: 2001-06-12

PRIOR PLING DATE: 2001-06-13

PRIOR PLING DATE: 2001-06-1
                                                                        480
                                                                                                                                                                        PIDQAAAGIDAEHVQQFYNLLIASIDVSRSWAERIPGFTDLPKEDQTLLIESAFLELFVL 480
                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                              61 FVEGYSSNYELKPSCVYQMQRPLIKVERGRAPSYHHHHHHHHHHHHHQQQHQQPSIPPA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COHYGVRICEGCKGFFKRIVOKNAKYVCLANKNCPVDKRRRNRCOYCRFOKCLSVGMVKE 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                              RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                              PTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                 SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLIMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                 RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIXDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 99.4%; Score 3316; DB 5; Length 626; Best Local Similarity 99.4%; Pred. No. 6.6e-216; Matches 622; Conservative 1; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                  601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 116, Application US/10659004 Publication No. US20050048507A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-659-004-116
                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                             421
                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                              421
                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                년 <sup>7</sup>
                                                                                   요
                                                                                                                                                                                        셤
                                                                                                                                                                                                                                    કે
                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                         ò
                                         ઠે
```

Ŋ

```
SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV 180
                             SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; ORGANISM: Sus scrofa
US-09-853-386-70
                                    121
                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                    181
                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
121
                                                                                          181
                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                541
                               g
                                                                            δ
                                                                                                                          셤
                                                                                                                                                                                ð
                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                       300
                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               599
                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       539
                                                                                                                                                                                                    HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MPCVQAQYSPSPPGSSXAAQTYSSEYTTEINNPDYTKLTMDLGSTEITATATTSLPSIST 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                       HITTELLI HIT
                                                                                                                                                                                                                                                                                                                       CQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKE
                                                                                                                                                                                                                                                                                                                                                                                         VVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SMITERHGLKEPKRVEELCNKITSSLKDHOSKGOALEPTESKVLGALVELRKICTLGLOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPNESKVLVALVELRKICTLGLQR
              SSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPMKAV
                                                                                                       PTVAGAR PPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAGSQAAALES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PTDQAAAGTDAEHVQQFYNLITASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 13, Application US/10414080

Publication No. US20030220288A1

GENERAL INFORMATION:

APPLICANT: WILLICAN, SHANNON E.

APPLICANT: MILBRANDT, JEFFERY

TITLE OF INVENTION: NOR-1 AND NURT7 NUCLEAR RECEPTORS AS TARGETS FOR

TITLE OF INVENTION: ANTI-LEUTEMIA THERAPY

FILE REFERENCE: PO2454US1

CURRENT APPLICATION NUMBER: US/10/414,080

CURRENT FILING DATE: 2002-04-15

PRIOR APPLICATION NUMBER: 60/373,238

PRIOR PILING DATE: 2002-04-17

NUMBER OF SEQ ID NOS: 36

SOFTWARE: Patentin Ver. 2.1

TENGTH. 2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98.9%; Score 3299.5; DB 4; Length 625; 99.2%; Pred. No. 8.6e-215; ive 1; Mismatches 3; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    600 IFYLKLEDLVSPPSIIDKLFLDTLPF 625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 99.2
Matches 621; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; ORGANISM: Homo sapiens
US-10-414-080-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 8
US-10-414-080-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
            121
                                                                                                       181
                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                             301
                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
            ઠે
                                                   q
                                                                                                       ò
                                                                                                                                      엄
                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                 엄
                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ਠੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

```
Sequence 70, Application US/09853386

Fatent No. US20020049151A1

Fatent No. US20202049151A1

FAPLICANT: Murphy, Evelyn

APPLICANT: Bresnihan, Barry

APPLICANT: Bresnihan, Barry

APPLICANT: Conneely, Orla

TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR

TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors

CURRENT APPLICATION NUMBER: US/09/853,386

CURRENT APPLICATION NUMBER: US 60/203645

FRIDE REPERENCE: 2000-05-11

PRIOR FILING DATE: 2000-05-12

NUMBER OF SEQ ID NOS: 153

SOFTWARE PatentIn version 3.1

SEQ ID NO 70

LENGTH: 643
       240
                                                                                                  HPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGDNAA 300
                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                               479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             599
                                                                                                                                                                                               COHYGVRICEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGMVKB 360
                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 FVEGYSSNYELKPSCVYQMQ----RPLIKVEEGRAPSYHHHHHHHHHHHHQQ----- 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MPCVQAQYSPSPPGSSYAAQTYGSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSFST 60
PTVAGARFPLFHFKDSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALES
                              VVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLDYSRYC
                                                                                                                                                                                                                                                                                                                                                                                                                      480 RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540 SMITERHGLKEPKRVEELCNKIISSLKDHQSKGQALEPNESKVLVALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                             PTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFLELFVL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALACLSAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICTLGLQR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 93.9%; Score 3133.5; DB 3; Length 643; Best Local Similarity 92.4%; Pred. No. 1.5e-203; Matches 594; Conservative 10; Mismatches 22; Indels 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601 IFYLKLEDLVSPPSIIDKLFLDTLPF 626
```

360 403 420 463 480 523

```
EDQTLLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLN
                                                                                                                                                                                                                                                                                                                                                          481 EDQTLLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLR
                                                                                                                                                                                                                                                                                                                                                                                                                     PGPLLDPPMKAVPTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLG--
                                                                                                      ---AAAAAAGSQAAALESHPYGLPLAKRAAPLAPPIGLTPSPTASSLLGESPSLPSPSR
                                                                                                                                241 AAAAAAAGSQAAALEGHPYGLPLAKRAAALAFSPLGLTTSPTTSSLLGESPSLPSPNR
                                                                                                                                                               SSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNR
                                                                                                                                                                                         STASGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNR
                                                                                                                                                                                                                                        LOSLNLDIQALACLSALSMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKV
                                                                                                                                                                                                                        CQYCRFQKCLSVGMVKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALV
                                                                                                                                                                                                                                                                                  RALTDSTPRDLDYSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKI PGFTDLPK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LGALVELRKICTLGLQRIFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 3123; DB 4;
Pred. No. 7.1e-203;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 99.8%;
Matches 586; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
US-10-755-889-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 11
US-10-755-889-64
                                                                                                                                                                                                                                                                                                                                                                                                       524 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  584 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 160
                                                169
                                                                           181
                                                                                                       227
                                                                                                                                                               284
                                                                                                                                                                                            301
                                                                                                                                                                                                                          344
                                                                                                                                                                                                                                                                                     404
                                                                                                                                                                                                                                                                                                                                            464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                          $ A
                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                               셤
                                                                                                    ઠે
                                                                                                                          g
                                                                                                                                                   8
                                                                                                                                                                                      8 8
                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                     ठे
                                                                                                                                                                                                                                                         EDQTLLIESAFUELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLR 540
                                                                                                                                                                                                                                                                                                                                                                                                                       583
                                                                                                                                                                                                                                                                                                                                                                                                                                                   009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 FWEGYSSNYELKPSCLYQMQPSGPRPLIKWEEGRAHGYHHHHHHHHHQQQQQQQQP 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                --QHQQPSIPPASSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIA 168
                                                                              PGPLLDPPMKAVPTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALGLPLGAA 240
                                                                                                                                     241 AAAAAAAGSQAAALEGHPYGLPLAKRAAALAFSPLGLTTSPTTSSLLGESPSLPSPPNR 300
                                                                                                                                                                              343
                                                                                                                                                                                                STASGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNR 360
                                                                                                                                                                                                                                                                                                   RALTDSTPRDLDYSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPK 463
                                                                                                                                                                                                                                                                                                                  EDQTLLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLN 523
                  PPQQQQPSIPPPSGPEDEVLPSTSMYFKQSPPSTPTTPVFPQQALMEDALFSAQGCIA 180
                                                            PGPLLDPPMKAVPTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAALSLPLG-- 226
                                                                                                                     283
                                                                                                                                                                                                                                         COYCRFOKCLSVGMVKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALV 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
    --QHQQPSIPPASSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIA 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 17, Application US/10414080
Publication No. US200302202881
GENERAL INFORMATION:
APPLICANT: MULLICAM, SHANNON E.
APPLICANT: MULLICAM, SHANNON E.
APPLICANT: MULLICAM, SHANNON E.
APPLICANT: MULLICAM, SHANNON E.
TITLE OF INVENTION: ANTI-LEUKEMIA THERAPY
TITLE OF INVENTION: ANTI-LEUKEMIA THERAPY
FILE REPERENCE: PO2454USI:
CURRENT APPLICATION NUMBER: US/10/414,080
CURRENT APPLICATION NUMBER: 60/373,238
PRIOR APPLICATION NUMBER: 60/373,238
PRIOR FILING DATE: 2002-04-17
NUMBER OF SEQ ID NOS: 36
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 17
LENGTH: 643
                                                                                                                                                                                                                                                                                                                                                                                                                                        541 LQSLNLDIQALACLSALSMITERHGLKEPKRVEBLCNKITSSLKEHQSKGQALEPKV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MPCVQAQYSPSPPGSSYAAQTYGSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSFST
                                                                                                                     ---AAAAAGSQAAALESHPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSR
                                                                                                                                                                                SSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRNR
                                                                                                                                                                                                                                                                                                                                                                                                                       LOSLNLDIQALACLSALSMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MPCVQAQYSPSPPGSSXAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61 FVEGYSSNYELKPSCVYQMQ----RPLIKVEEGRAPSYHHHHHHHHHHHHHQQ-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 4; Length 643;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ch 93.9%; Score 3133.5; DB 4; Length I Similarity 92.4%; Pred. No. 1.5e-203; 594; Conservative 10; Mismatches 22; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Sus scrofa
US-10-414-080-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
US-10-414-080-17
                                                                                                                                                                                                                                                                                                                                                                                                                       524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                111
                                                            169
                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                          464
                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                   404
                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                121
                                                                                         181
                                                                                                                       227
                                                                                                                                                                              284
                                                                                                                                                                                                                                           344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8.
                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                   ó
                                                                                g
                                                                                                                     ð
                                                                                                                                           g
                                                                                                                                                                     ò
                                                                                                                                                                                                                                8ે
                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                 જ
                        셤
```

```
| Sequence 64, Application US/10755889 |
| Sequence 64, Application US/10755889 |
| Publication No. US20040171823A1 |
| GENERAL INPORMATION: |
| APPLICANT: Bristol-Myers Squibb Company |
| TITLE OF INVENTION: PATHWAY |
| FILE REFERENCE: D0024 NP |
| CURRENT APPLICATION NUMBER: US/10/755,889 |
| CURRENT APPLICATION NUMBER: U.S. 60/440,068 |
| PRIOR PILING DATE: 2003-01-14 |
| PRIOR APPLICATION NUMBER: U.S. 60/469,757 |
| PRIOR PILING DATE: 2003-05-12 |
| NUMBER OF SEQ ID NOS: 823 |
| SOFTWARE: Patentin version 3.2 |
| SEG ID NO 64 |
| LENGTH: S87 |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LPSAPGCIAPGPLLDPPMKAVPTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAA 219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100 HHHHHHHHQQQHQQPSIPPASSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               40 MDLGSTEITATATTSLPSISTFVEGYSSNYELKPSCVYQMQRPLIKVEEGRAPSYHHHHH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
```

```
the NURR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 68, Application US/09853386

Patent No. USJ0020049151A1

GRENEAL INFORMATION:
APPLICANT: Murphy, Evelyn
APPLICANT: Conneely, Orla
APPLICANT: Fitzgerald, Oliver
TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
TITLE OF INVENTION: US/09/853,386
CURRENT FILING DATE: 2001-05-11
FRIOR REPRICATION NUMBER: US/09/853,386
CURRENT FILING DATE: 2000-05-12
FRIOR FILING DATE: 2000-05-12
NUMBER OF SEQ ID NOS: 153
SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                                                                                                                                                                                                  597
                                                                                                                                                                                                                                                        477
                                                       355
                                                                                                                                357
                                                                                                                                                             415
                                                                                                                                                                                           417
                                                                                                                                                                                                                          475
                                                                                                                                                                                                                                                                                         535
                                                                                                                                                                                                                                                                                                                      537
                                                                                                                                                                                                                                                                                                                                                       595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FVEGYSSNYELKPSCVYQM----QRPLIKVEEGRAPSYHHHHHHHHHHHQQQHQQPS 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       117 IPPASSPEDEVLPSTSMYFKQSPSTPTTPAPPPQAGALWDEALPSAPGCIAPGPLLDPP 176
    179 MKAVPPMAAARFPIF-FKPSPPHPPAPSPAGGHHLGYDPTAAALSLPLGAAAAGSQA 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         119 IPPPSGPEDEVLPSTSMYFKQSPPSTPTTPGFPPQAGALWDDELPSAPGCIAPGPLDPQ 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MKAVPTV-AGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQA 235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                   298 GDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSV
                                                                                                                                                            GMVKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLD
                                                                                                                                                                              358 GMVKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPICMMNALVRALTDATPRDLD
                                                                                                                                                                                                                                                                                                        538 CLSALSMITERHGLKEPKRVEELCNKITSSLKDHQRKGQALEPSEPKVLRALVELKKICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 FWEGYPSSCELKPSCLYQMPPSGPRPLIKMEEGREHGYHHHHHHHHHHHHQO--QQPS
                                                                                                 GDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSV
                                                                                                                                                                                                                         YSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFL
                                                                                                                                                                                                                                                      418 YSRYCPTDQATAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFL
                                                                                                                                                                                                                                                                                    ELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MPCVQAQYSPSPPGSTYATQTYGSEYTTEIMNPDYAKLIMDLGSTGIMATATTSLPSFST
                                                                                                                                                                                                                                                                                                                                                    CLSALSMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 628;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 92.1%; Score 3074; DB 3; Best Local Similarity 92.2%; Pred. No. 1.6e-199; Matches 582; Conservative 12; Mismatches 29;
                                                                                                                                                                                                                                                                                                                                                                                                                  596 LGLQRIFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                    598 QCLQRIFYLKLEDLVSPPSVIDKLFLDTLPF 628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-853-386-68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 13
US-09-853-386-68
                                                                                                                                                                                                                                                                                                                     478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 68
                                                                                               296
                                                                                                                                                                                                                         416
                                    236
                                                                                                                                                          356
                                                                                                                                                                                                                                                                                     476
                                                                                                                                                                                                                                                                                                                                                    536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   177
                                                         ď
                                                                                                                      g
                                                                                                                                                     ò
                                                                                                                                                                                      쉽
                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                   셤
                           ð
                                                                                            ð
                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                  ર્જ
                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                              임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 12
US-09-853-386-66

J Gaquence 66, Application US/09853386

Retent No. US-20020049151A1

GENERAL INFORMATION:

APPLICANT: Murphy, Evelyn

APPLICANT: Conneely, Orla

APPLICANT: Fitzgerald, Oliver

TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR

TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors

TITLE OP INVENTION: Subfamily of Nuclear Transcription Factors

FILE REPERENCE: P0197203.

CURRENT APPLICATION NUMBER: US/09/853,386

CURRENT APPLICATION NUMBER: US 60/203645

PRIOR PILING DATE: 2000-05-12

NUMBER OF SEQ ID NOS: 153

SOFTWARE PATENTING DATE: Patentin version 3.1
                                                                                                                           300
                                                                                                                                                          399
                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                    579
                                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                       459
                                                                                                                                                                                                                                                     420
LPSAPGCIAPGPLLDPPMKAVPTVAGARPPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FVEGYSSNYELKPSCVYQM----QRPLIKVEEGRAPSYHHHHHHHHHHHHQQQHQQPS 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IPPASSPEDEVLPSTSMYFKQSPPSTPTTPAPPPQAGALWDEALPSAPGCIAPGPLLDPP 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MPCVQAQYSPSPPGSTYATQTYGSBYTTEIMNPDYAKLTMDLGSTGIMATATTSLPSFST 60
                                                                                                          241 PPSRSSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFRKTVQKNAKYVCLANKNCPVDKR
                             ALSIPIGAAAAAGSQAAALESHPYGLPLAKRAAPIAFPPIGITPSPTASSILGESPSIPS
                                                    PPSRSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKR
                                                                                                                                                       RRNRCQYCRFQKCLSVGMVKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPICMM
                                                                                                                                                                                                                                      NALVRALTDSTPRDLDYSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFT
                                                                                                                                                                                                                                                                                  DLPKEDQTLLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKD
                                                                                                                                                                                                                                                                                                                                               FSLNLQSLNLDIQALACLSALSMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MKAVPTV-AGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ÷
                                                                                                                                                                                                                                                                                                                                                                                                               ESKVLGALVELRKICTLGLQRIFYLKLEDLVSPPSIIDKLFLDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 628;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92.1%; Score 3074; DB 3; Length 6 92.2%; Pred. No. 1.6e-199; ive 12; Mismatches 29; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: PRT
; ORGANISM: Rattus morvegicus
US-09-853-386-66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 92.2
Matches 582; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                               580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 66
121
                             220
                                                            181
                                                                                            280
                                                                                                                                                       340
                                                                                                                                                                                      301
                                                                                                                                                                                                                    400
                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                460
                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                 520
                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  177
                                                       g
                                                                                                              g
                                                                                                                                                                         qq
                                                                                                                                                                                                                                         g
                             ሯ
                                                                              ઠ
                                                                                                                                                    à
                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

g

õ

셤

ઠે

Š

g

요 ઠે

ઠે

ò

ò

ઠે

```
116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MKAVPTV-AGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQA 235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       117 IPPASSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPP 176
                                                                                                                                                            357
                                                                                                                                                                                                  415
                                                                                                                                                                                                                                       417
                                                                                                                                                                                                                                                                                 475
                                                                                                                                                                                                                                                                                                                     477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    597
179 MKAVPPMAAAARFPIF-FKPSPPHPPAPSFAGGHHLGYDPTAAAALSLPLGAAAAAGSQA 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 FVEGYSSNYELKPSCVYQM----QRPLIKVEEGRAPSYHHHHHHHHHHQQQPS
                                     AALESHPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPSRSSSSGEGTCAVC
                                                            GDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSV
                                                                                                                                         ELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALA
                                                                                                                                                                                                                                                                                                                                                                                                                                            CLSALSMITERHGLKEPKRVEELCNKITSSLKDHQSKGQALEPTESKVLGALVELRKICT
                                                                                                                                                                                                    GMVKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLD
                                                                                                                                                                                                                                                                               YSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92.1%; Score 3074; DB 4; Length 628; 92.2%; Pred. No. 1.6e-199; ive 12; Mismatches 29; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Application US/10005169
; Publication No. US20020152492A1
; GENERAL INFORMATION:
    APPLICANT: Guenther, Catherine
; APPLICANT: Guenther, Catherine
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: TRANSGENIC MICE CONTAINING NOR1 GENE
; TITLE OF INVENTION: DISRUPTIONS
; FILE REFERENCE: Re 687
; CURRENT APPLICATION NUMBER: US 60/251,794
; RIOR RILING DATE: 2001-12-06
; RIOR APPLICATION NUMBER: US 60/251,794
; RIOR APPLICATION NUMBER: US 60/251,794
; RIOR APPLICATION NUMBER: US 60/251,794
; RIOR APPLICATION NUMBER: US 60/324,614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                596 LGLQRIFYLKLEDLVSPPSIIDKLFLDTLPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         582; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Ratus norvegius
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
Matches 582; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-005-169-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-005-169-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                     416
                                                                                                                                                                                                                                                                                                                                                                 476
                                                                                                                                                                                                                                                                                                                                                                                                                                                536
                                                                                                                       296
                                                                                                                                                              298
                                                                                                                                                                                                    356
                                                                                                                                                                                                                                            358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                               ò
                                                                    엄
                                                                                                                  8 8
                                                                                                                                                                                     ò
                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NURR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           235
                                                                                                                       355
                                                                                                                                                                                                      415
                                                                                                                                                                                                                                                                                 475
                                                                                                                                                                                                                                                                                                                                                                 535
                                                                                                                                                                                                                                                                                                                                                                                                        537
                                                                                                                                                                                                                                                                                                                                                                                                                                            61 FVEGYSSNYELKPSCVYQM----QRPLIKVEEGRAPSYHHHHHHHHHHHQQQHQQPS 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           117 IPPASSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPP 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                417
                                                                                                                                                                                                                                                                                                                         477
                                         AALESHPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVC 295
                                                                               297
                                                                                                                                                              357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
  179 MKAVPPMAAARFPIF-FKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAGSQA 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 73, Application US/09853386

Patent No. US20020049151A1

GENERAL INFORMATION:

APPLICANT: Bresnihan, Barry
APPLICANT: Conneely, Orla

TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors

CURRENT APPLICATION NUMBER: US 60/203645

PRIOR APPLICATION NUMBER: US 60/203645

PRIOR APPLICATION NUMBER: US 60/203645

NUMBER OF SEQ ID NOS: 153

SOFTWARE: Patentin version 3.1

SEQUENCE: The Patentin Version 3.1
                                                                GDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRNRCQYCRFQKCLSV
                                                                                                                                                                                                                           ELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 FMEGYPSSCELKPSCLYQMPPSGPRPLIXMEEGREHGYHHHHHHHHHHHHQQ--QQPS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MKAVPTV-AGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQA
                                                                                                                       GDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSV
                                                                                                                                                                                                      GMVKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRALTDSTPRDLD
                                                                                                                                                                                                                                                                                   YSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLIESAFL
                                                                                                                                                                                                                                                                                                          ELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MPCVQAQYSPSPPGSSYAAQTYSSEYTTEIMNPDYTKLTMDLGSTEITATATTSLPSIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 628;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 92.1%; Score 3074; DB 3; Length 6; Best Local Similarity 92.2%; Pred. No. 1.6e-199; Matches 582; Conservative 12; Mismatches 29; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
US-09-853-386-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-853-386-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 628
                                                                                 238
                                                                                                                                                              298
                                                                                                                                                                                                                                            358
                                                                                                                                                                                                    356
                                                                                                                                                                                                                                                                                     416
                                                                                                                                                                                                                                                                                                                                                                 476
                                                                                                                                                                                                                                                                                                                                                                                                        478
                                                                                                                       296
                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
```

us-10-608-863-2.rapbm

```
356 GMVKEVVRTDSLKGRRGRLPSKPKSPLQQRPSQPSPPSPPICMMNALVRALTDSTPRDLD 415
                                                                              416 YSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLJIESAFL 475
                                                                                                    ELFVLRLSIRSNTAEDKFVFCNGLVLHRLQCLRGFGEWLDSIKDFSLNLQSLNLDIQALA 535
                                                                                                                          179 MKAVPPMAAAARFPIF-FKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAGSQA 237
                                                                                                                                                 476
                                                                                                                478
 ద
           Š
                     8 % 8
                                                     8 8 8 8 8 8
                                                                                                                                   g
                                                                                                                                                 à
```

Search completed: March 17, 2006, 13:05:07 Job time: 76 secs

This Page blank (USD)

us-10-608-863-2.rapbn

```
63, Appl
61, Appl
230, App
26, Appl
1, Appli
52, Appl
                                                                March 17, 2006, 13:05:20 ; Search time 13 Seconds (without alignments) 1378.302 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7, Appli
9, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                          3337,
1 MPCVQAQYSPSPPGSSYAAQ......BDLVSPPSIIDKLFLDTLPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                  /cgn2_6/ptodata/1/pubpaa/US08 NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US06 NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US07_NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/PCT_NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10_NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10_NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10_NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US11_NEW PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US01_NEW PUB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-828-831-9
US-10-501-035-317
US-10-519-447-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-094-519A-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-094-519A-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-828-831-5
US-11-156-272-12
                                                                                                                                                                                                                                                                                                                           Published Applications AA New:*
                                                                                                                                                                                             169630 seqs, 28622889 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUMMARIES
                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                           OM protein - protein search, using sw model
                                                                                                                                                           BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                           seq length: 0
seq length: 200000000
                                                                                                               US-10-608-863-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *
Query
Match 1
                                                                                                                          Perfect score:
                                                                                                                                                           Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            533.5
479
479
479
411.5
403.5
388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               368
359.5
359.5
359
357
351.5
345
345
34.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score
                                                                                                                                                                                                                                          Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                           Database :
                                                                                                                                      Sequence:
                                                                                                                                                                                             Searched:
                                                                  Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Result
```

Sequence 50, Appl	US-11-053-100-50	7	1225	5.9	198.5	45
Sequence 51, Appl	US-11-053-100-51	7	775	5.9	198.5	44
Sequence 14, Appl	US-11-093-808-14	^	412	5.9	198.5	43
Sequence 11, Appl	US-11-093-808-11	7	412	5.9	198.5	42
Sequence 9, Appli	US-11-093-808-9	7	412	6.0	198.5	41
Sequence 14, App.	US-10-993-143-14	9	241	5.9	198.5	40
Sequence 226, App	US-11-166-412-226	7	263	6.1	202	39
Sequence 49, Appl	US-11-053-100-49	7	774	6.1	203.5	38
Sequence 48, App.	US-11-053-100-48	7	624	6.1	203.5	37
ì	US-11-106-674-1	7	688	6.5	217.5	36
Sequence 5, Appli	US-11-118-855-5	7	99	9.9	219	35
22	US-11-166-412-220	7	306	6.9	231	34
Sequence 2, Appl:	US-10-658-986-2	9	742	9.5	317	33
4, 7	US-10-658-986-4	9	777	9.5	318	32
Sequence 53, Appl	US-11-166-412-53	7	200	9.7	323.5	31
Sequence 54, App	US-11-166-412-54	7	495	9.7	324.5	30
Sequence 4, Appl	US-11-096-072A-4	7	385	9.8	326	53
Sequence 55, App	US-11-166-412-55	7	541	o. 6.	329	28
Sequence 3, Appl	US-11-096-072A-3	7	385	10.0	334	27
Sequence 10, Appl	US-11-156-272-10	7	450	10.0	334.5	56

## ALIGNMENTS

```
57 SISTFVEGYSSNYELKPSCVYQM----QRPLIKVBEGRAPSYHHHHHHHHHHHHHHHQQQH 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          113 QQPSIPPASSPEDEVLP-STSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGP 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     172 LLDPPMKAVPT------VAGARFPLFHFKPSPPHPPA-------PSPAG 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    149 LHNFHQNYVATTHMIEQRKTPVSRLSLFSFKQSPPGTPVSSCQMRFDGPLHVPMNPEPAS 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   208 GHHLGYDPTAAAALSLPLGAAAAAGSQAAALESHPYGLP-LAKRAAPLAFPPLGLTPSPT 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ASSLIGESPSLPSPPSRSSSSGGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKY 326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                52.3%; Score 1745; DB 7; Length 598;
54.4%; Pred. No. 5.3e-124;
ative 74; Mismatches 122; Indels 108; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     106 ----LPPQS---ERMMPHSGSVYXKPSSPPTPTTPGFQVQHSPMWDD-----PGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MPCVQAQYSPSPPGSSYAAQTY----SSEYTTEIMNPDYTKLTMDLGSTEITATATTSLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2, Application US/11198640A
| Sequence 2, Application US/11198640A
| Publication No. US20060040298A1
| GENERAL INFORMATION:
| APPLICANT: Schmidt, Azriel
| APPLICANT: Duong, Le Thi
| APPLICANT: Pickarski, Maureen
| TITLE OF INVENTION: RHESUS MONKEY NURRI NUCLEAR RECEPTOR
| FILE REFERENCE: 21228
| CURRENT APPLICATION NUMBER: US/11/198,640A
| CURRENT FILING DATE: 2005-08-05
| PRIOR APPLICATION NUMBER: 60/599,279
| PRIOR PILING DATE: 2004-08-05
| NUMBER OF SEQ ID NOS: 17
| SEQ ID NOS: 17
| SEQ ID NO 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          59 SFSTFMDNYSTGYDVKPPCLYQMPLSGQQSSIKVEDIQMHNYQQHSH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 54.44
Matches 362; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Macaca mulatta
US-11-198-640A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-198-640A-2
                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 598
                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
APPLICANT: Van Rompaey, Luc
APPLICANT: Tomme, Peter H. M.
TITLE OF INVENTION: Methods and Compositions To Promote Bone Homeostasis
FILE REFERENCE: P27, 927-D USA
CURRENT APPLICATION NUMBER: US/11/166,412
CURRENT FILING DATE: 2005-06-24
PRIOR APPLICATION NUMBER: 60/630,449
PRIOR PILING DATE: 2004-10-23
PRIOR PILING DATE: 2004-11-23
PRIOR PILING DATE: 2004-11-23
PRIOR PILING DATE: 2004-11-33
PRIOR PILING DATE: 2005-04-20
NUMBER OF SEQ ID NOS: 231
SOFTWARE: Petentin version 3.3
SEQ ID NO 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLVCGDIASGYHYGVASCEACXAFFXRTIQGNIEYSCPATNECEITKRRRKSCQACRFMK 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 165 CLKVGMLKEGVRLDRVRG--GRQKYKRRIDAENSPYLNPQLVQPAKKPYNKIVSHLLVAE 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRDLDYSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLLI 470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHRLQC-LRGFGEWLDSIKDFSLNLQSLNL 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PEKI----YAMPDPTVPDSDIKALTTLCDLADRELVVIIGWAKHIPGFSTLSLADQMSLL 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               --SPPL----YPSAPILGGSGPVRKLYDDCSSTIVEDPQTKCEYMLNSMPKR-----L 104
                                                                                                                               PKEDQTLLIESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHRLQC-LRGFGEWLDSI-KD
                                                                                                                                                    124 LVSKWRDWRMDKTELGCLRAIILFNPDAKGLSNPSEVEVLREKVYASLETYCKQKYPEQQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17 KTEPSSPASLIDSVNHH------SPGGSSDASGSYSSTMNGHQNGLD-----
                                                                                        323 GGTGGSGSSPND-----PVTNICQAAD----KQLFTLV-----EWAKRIPHFSSL
                                                                                                                                                                                                   520 PSINLOSIANLDIQALACLSALSMIT-ERHGLKEPKRVEELCNKITSSLKDH-QSKGQALE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 194 KPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAALESHPYGLPLAKRAAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----SLPSPSRSSSSGEGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRNRCQYCRFQK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CLSVGMVKEVVRTDSLKGRRGRLPSKPKSPLQQEP-SQPSPPSPPICMMNALVRALTDST
                                                        ----TDSTPRDLDYSRYCPTDQAAAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 435;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14.4%; Score 479; DB 7; Length 43
29.7%; Pred. No. 1.1e-28;
ive 76; Mismatches 176; Indels
                                                                                                                                                                                                                                                                                                 578 PTESKVLGALVELRKICTLGLQRIFYLKL 606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           254 LAFPPLGLTPSPTASSLLGESP------
                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 62, Application US/11166412
Publication No. US20060014231A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Simitaricy ....
Matches 136; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                          US-11-166-412-62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-166-412-62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               279
                                                                                                                               462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                   유
                                                                                                                         8 8
                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                              ℅
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Publication No. US20050287559A1

Sequence 335, Application US/1112436BA

Publication No. US20050287559A1

GENERAL INFORMATION:

APPLICANT: James J. Devlin

APPLICANT: James J. Devlin

APPLICANT: May Luke

TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof

FILE REFRENCE: CLOO1524

CURRENT APPLICATION NUMBER: US/11/124,36BA

CURRENT APPLICATION NUMBER: US 60/568,845

PRIOR APPLICATION NUMBER: US 60/625,936

PRIOR FILING DATE: 2004-05-07

PRIOR FILING DATE: 2004-11-09

PRIOR FILING DATE: 2004-11-09

NUMBER OF SEQ ID NOS: 21112

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    210
                                                                                                            443
                                                                                                                                                412
                                                                                                                                                                                     503
                                                                                                                                                                                                                        472
                                                                                                                                                                                                                                                                                                 532
                                                                                                                                                                                                                                                                                                                                    620
                                                                                                                                                                                                                                                                                                                                                                       592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              211 RSSGKHYGVYSCEGCKGFFKRTIRKDLTYSCRDNKDCTVDKRQRNRCQYCRYQKCLATGM 270
                                                                                                                                                                                                                                                             LOCIRGFGEWLDSIKDFSLNLQSLNLDIQALACLSALSMITERHGLKEPKRVEBLCNKIT 563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          178 KAVPTVAGARFPLFHFKPSPPHPPAPSPAGGHHLGYDPTAAAALSLPLGAAAAAGSQAAA 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VKEVVRTDSLKGRRGRLPSKPKSPLQQEPSQPSPPSPPICMMNALVRAL------ 406
ASQLL--DIQVPSPPSRGSPSNEGLCAVCGDNAACQHYGVRICEGCKGFFKRIVQKNAKY 297
                                                        298 VCLANKNCPVDKRRRNRCQYCRFQKCLAVGMVKEVVRTDSLKGRRGRLPSKPKS----P
                                                                                                                                 -----pPEDVKP----PVLGVRGLHCPPPPGGPGAGKRLCAICGD
                                                                                                          SQPSPPSPPICMMNALVRALTDSTP--RDLDYSRY-CPTDQAAAGTDAEHVQQFYNLLTA
                                                                                                                                                                                                                                                                                                                                    SSLKDHQ--SKGQALEPTE-SKVLGALVELRKICTLGLQRIFYLKLEDLVSPPSIIDKLF
                                                                                                                                                                                                                                                                                                                                                          83 PDSSSPNP--LP-----QGVPPPSPPGPPLPPSTA-----PSLGGSGAPP---PPM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P--PPPLGSPFPVISSSMGSPGLPPPAPPGFSGPVSSPQINSTVSLPGGGSG-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  238 LESHPYGLPLAKRAAPLAFPPLGLTPSPTASSLLGESPSLPSPPSRSSSSGEGTCAVCGD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         298 NAACQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCPVDKRRRNRCQYCRFQKCLSVGM
                                                                                                                                                                                     SIDVSRSWAEKI PGFTDLPKEDQTLLI ESAFLELFVLRLSIRSNTAEDKFVFCNGLVLHR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   118 PPASSPEDEVLPSTSMYFKQSPPSTPTTPAFPPQAGALWDEALPSAPGCIAPGPLLDPPM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 533;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16.0%; Score 533.5; DB 7; 29.7%; Pred. No. 1.1e-32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              70; Mismatches 189;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 151; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT; ORGANISM: Homo sapiens
US-11-124-368A-335
                                                                                                                                                                                                                                                                                                                                                                                                              LDTLPF 626
                                                                                                                                                                                                                                                                                                                                                                                                                                               LDTLPF 598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-11-124-368A-335
                                                                                                            387
                                                                                                                                                353
                                                                                                                                                                                                                                                                                                                                                                       533
                                                                                                                                                                                                                                                                                                                                                                                                                                                 593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    175
                                                                                                                                                                                     444
                                                                                                                                                                                                                        413
                                                                                                                                                                                                                                                             504
                                                                                                                                                                                                                                                                                              473
                                                                                                                                                                                                                                                                                                                                    564
                                                                                                                                                                                                                                                                                                                                                                                                              621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                               셤
                                                                                                      ઠે
                                                                                                                                         g
                                                                                                                                                                               ઠે
                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                        쉱
                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
```

291

```
March 17, 2006, 22:16:03 ; Search time 635 Seconds (without alignments) 10620.581 Million cell updates/sec
                                                                                                                                                                                                                                        US-10-608-863-1
3794
1 ataaatgacgtgccgagaga.....gtgtgagtactaggaaggat 3794
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2606114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Issued Patents NA:*
1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                   1303057 segs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                     OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                          IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                        Title:
Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database :
                                                                                                                                                                                                                                                                                                                                                                                                                     Searched:
                                                                                                                                        Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		Description	Sequence 3789, Ap		928,	1264	Sequence 15531, A		828, 1	4467	1, Apr		4392,	58, A	354	Sequence 135237,		Sequence 35441, A	Sequence 135227,	Sequence 35440, A		'n	۲,	57		'n
SUMMARIES	;	ID	US-09-949-016-3789	US-09-949-016-905	US-09-023-655-928	US-09-949-016-12647	US-09-949-016-15531	US-09-023-655-1400	US-09-949-016-828	US-09-949-016-4467	US-09-277-078-1	US-10-131-827-8211	US-09-949-016-4392	US-09-566-921-58	US-09-949-016-35444	US-09-949-016-135237	US-09-949-016-135236	US-09-949-016-35441	US-09-949-016-135227	US-09-949-016-35440	US-09-949-016-135226	US-08-216-592A-3	US-07-952-800-1	US-09-949-016-5701	US-09-132-619-3	US-09-282-803B-3
		BB :	3	ო	ო	ო	m	ო	m	m	ო	ო	ო	ო	m	m	ო	m	m	٣	ო	m	~	m	7	m
	•	Match Length	3797	3802	2714	47184	47184	3427	3427	3427	1797	069	2486	2637	601	601	601	601	601	601	601	1757	2130	2538	1245	1245
de	Query	Match	99.6	98.1	70.9	37.4	37.4	13.1	13.1	13.1	12.8	11.0	9.6	9.0	8.3	8.3	6.2	4.6	4.6	3.6				2.9	5.9	2.9
	Č	Score	3779.4	3722	2689.6	1420.4	1420.4	497	497	497	486.4	418.4	363.8	340.6	315.6	315.6	236	174.6	174.6	135.6	135.6	109.6	109.6	109.6	109.4	109.4
	Result	. P	7	7	m	4	ហ	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Seguence 3, Appli	Sequence 7, Appli	7	Sequence 7, Appli	548		٦,	Sequence 1, Appli	Sequence 1, Appli	Sequence 5, Appli	Sequence 5, Appli	'n	Sequence 17, Appl	Seguence 12570, A	Sequence 16209, A	Sequence 1621, Ap	٠,	m	Sequence 7, Appli	7	1,
US-09-510-654-3	US-09-132-619-7	US-09-282-803B-7	US-09-510-654-7	US-09-949-016-548	US-09-949-016-1196	US-09-132-619-1	US-09-282-803B-1	US-09-510-654-1	US-09-132-619-5	US-09-282-803B-5	US-09-510-654-5	US-10-329-668-17	US-09-949-016-12570	US-09-949-016-16209	US-09-949-016-1621	US-10-329-668-15	US-07-952-800-3	US-08-336-408B-7	PCT-US91-00399-7	US-08-216-592A-1
ო	~	٣	m	ო	m	7	ო	ო	~	m	m	m	ო	m	ო	m	7	N	9	m
1245	2330	2330	2330	2482	2486	3115	3115	3115	3251	3251	3251	1330	12232	12240	1564	1827	2204	2219	2219	2285
2.9	2.9	2.9	2.9	5.9	2.9	2.9	2.9	5.9	2.9	2.9	2.9	5.9	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.7
109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.4	109.2	108.4	108.4	104.2	104.2	102.8	102.8	102.8	102.8
25	56	27	28	29	30	31	32	33	34	32	36	37	38	39	40	41	42	43	44	45

## ALIGNMENTS

131   GTTGCCGCCTCDGCCCTCGCACCCCCCCCCCCCCCCCCCC
8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5
11 COCOACTOGACCACCACCACCACCACACCACCACCACCACCACCACCA

	RESULT 2 US-09-949-016-905 US-09-949-016-905 ; Sequence 905, Application US/09949016 ; Patent No. 681239 ; GENERAL INFORMATION: ; APPLICANT: VENTER, J. Craig et al. ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED ; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF; ; FILE REPRENCE: CLO01307 ; CURRENT APPLICATION NUMBER: US/09/949,016 ; FRIOR APPLICATION NUMBER: 60/241,755 ; PRIOR FILING DATE: 2000-10-20 ; PRIOR FILING DATE: 2000-10-03 ; PRIOR FILING DATE: 2000-10-03 ; PRIOR FILING DATE: 2000-10-03 ; PRIOR FILING DATE: 2000-09-08 ; NUMBER OF SEQ ID NOS: 207012 ; SOFTWARE: FastSEQ for Windows Version 4.0 ; SEQ ID NO 905 ; TYPE: DNA ; OSCANISH: Human US-09-949-016-905	Ouery Match  Best Local Similarity 99.4%; Prod. No. 0;  Matches 3779; Conservative 0; Mismatches 15; Indels 8; Gaps 4;  Matches 3779; Conservative 0; Mismatches 15; Indels 8; Gaps 4;  Oy 1 ATAAATGACGTGCCGAGAGAGCGAACGCGCAGAGCCGGAGTCTCCTGCT 60  I ATAAATGACGTGCCCAGAGAGCGAACGCGAGCCGGAGAGCCGAGTCTCCTGCT 60  C CCCGCCCCCCACCCTCAGTCCTGCTCTCTCTCTCTCTCTC
2461 CCCACCGAGTCCAAGGTGCCTGGTAGAACTGAGGAAGATCTGCACCCTGGGC 2520 2461 CCCACCGAGTCCAAGGTGCTGGGTGCCTGGAGCATCTGCACCCTGGGC 2520 2521 CTCCAGCGCATCTTCTACCTGAAGGTGCCTGGTGTCTCCACCTTCCATCGTGC 2521 CTCCAGCGCATCTTCTACCTGAAGGTGCAGGTGCTCCACCTTCCATCATTGAC 2580 2521 CTCCAGCGCATCTTCTACCTGAAGGTGGAGCAGTGGTGCTCCATCCA		3121 CTTCTTCCTTTATTTAACAAATGGTGAAAGATGGAGGATTACCTACAAATCGACATGG 3180 3121 CTTCTTCCTTTATTTTAACAAATGGTGAAAGATGGAGGATTACCTACAAATCAGACATGG 3180 3181 CAAAACAATAATGTTTAACAAATGGTGAAAGATGCAGATTACTTTTAAAGACATTATTTTAAAATGGTTTTAAAATGGTAATTAAAAAAAA

Mon Mar 20 09:54:51 2006

TACCTTTCTAATCAGGAGCAGTGGAGCAGTGAGCTGCCTCCTCCTAGCACCTGCTTGC		TACGCAGCAAAGGGATAGGTTTGGAAACCTATCATTTCCTGTCCTTCCT	GCAGCTCCTGTAGAAAGCAAAGACTTTCTTTTTTTTTGTGGCTCTTTTTCTTACAACCTAA AGCCAGAAAACTTGCAGAGTATTGTGTTGGGGTTGTGTTTTATTTA	AGCCAGABAACTTGCAGAGTATTGTGTTGGGGTTGTGTTTTATATTTAGGCATTGGGGGGA TGGGGTGGGAGGGGTTATAGTTCATGAGGGTTTTCTAAGAAATTGCTAACAAAGCACTT	44227 TGGGGTGGGGGGGTTAFAGTTCATGAGGGTTTTCTAAGAAATTGCTAACAAGCACTT 44286 2900 TTGGACAATGCTATCCCAGCAGAAAAAAGGGATAATATAACTGTTTTAAAACTGTTTC 2959		3020 CAGGGTAGGATGTGTTTAAAGATTGGTCCCTTGAAAATATGGTTCCTGTATCAAAGGTA 3079 	3080 CGTATGTGGTAAACAAGGCAGAAACTTCCTTTTAATTTCCTTCC	3140 AAATGGTGAAAGATGGAGGATTACCTACAAATCAGACATGGCAAAACAATAATGGCTGTT 3199 	3200 IGCTICCATAAACAAGIGCAATITITIAAAGIGCIGICTIACTAAGIGCTIGITIAITAAC 3259 	3260 TCTCCTTTATTCTATAGGAAATAAAAGGAGGGGGGTCATGTTAGCAAATGACACGTTAA 3319 	3320 TATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGTCGATCCCTTCTGAGGTATGGCCCATC 3379	3380 CAAGACTITIAGGCCAITCTIGAIGGAACCAGATCCCTGCCCTG	3440 GAAAGTGGATGAGTATAAACTGGATTACATGTAACTGTTTTGGTTGTGTTCTATCAAC 3499 	3500 CCCACCAGAGTICCCTAAACTIGCTTCAGTIAIAGTAACTGGCTGGTATATTCAITCAGA 3559 	3560 AGGCCATAAGTCAGTTGAGTATTTGATCCCTAGATAAGAACATGCAAATCAGCAGGAAC 3619 	3620 TGGTCATACAGGGTAAGCACCAGGACAATAAGGATTTTTATAGATATAAATTTTT 3679 
8 8	8 8	ය දුර දුර	g & :	ga ko	90 AG	Š a	QY QD	S da	S da	oy G	oy Oy	oy d	oy g	oy Oy	ò a	\$ A	<b>&amp;</b> 8
OY 2412 GATCACAAGCAGTTTAAAAGACCACCAGAGTAAGGGACAGGCTCTGGAGCCCACCGAGTC 2471	Qy       2472       CAAGGTCCTGGGTGCCCTGGTAGAACTGAGGAAGATCTGCACCCTCGGGCCTCCAGGGCAT       2531         Db       2359       CAAGGTCCTGGGTAGAACTGAGGAAGATCTGCACCCTGGGCCTCCAGGGCAT       2418	QY 2532 CTTCTACCTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATGACAAGCTCTTCCT 2591	Oy 2592 GGACACCCTACCTTTCTAATCAGGAGCAGGAGGAGTGAGCTGCCTCCTCTCTAGCAC' 2651	OY 2652 CTGCTTGCTACGCAGCAAAGGGATAGGTTTGGAAACCTATCATTTCCTGTCCTTCCT		OY 2772 CAACCTAGAGGCAGAAAACTTGCAGAGTATTGTGTTGGGTTGTTTATATTA 2827 	RESULT 4 US-09-949-016-12647 Sequence 12647, Application US/09949016 Partent No 6819339	; GENERAL INFORMATION: ; APPLICANT: VENTER, J. Craig et al. ; TITLE OF INVENTION: POLYMORPHISNE IN KNOWN GENES ASSOCIATED ; TITLE OF INVENTION: WITH HIMAN DISRAES METHONS OF DETECTION AND HIGGS TRUEDEDE		PRIOR FILING DATE: 2000-10-20 PRIOR APPLICATION NUMBER: 60/237,768 PRIOR PILING DATE: 2000-10-03 PRIOR APPLICATION NUMBER: 60/31 499	PRIOR FILING DATE: 2000-09-08 NUMBER OF SEQ ID NOS: 207012 SOF DE NOS: SEQ ID NOS: 207012 SEQ ID NO 12647	;	37.4%; Score 1420.4; DB 3; Length 47184; rity 99.7%; Pred. No. 38-304;	AGAACCAAAGAGAGTCGAAGAGCTATGCAACAAGATCACAA 24	2420 GCAGTITAAAAGACCACCAGAGTAAGGGACAAGCCTCTGGAGCCCACCGAGTCCAAGGTCC 43807 GCAGTITAAAAGACCACCAAAGTAAGGGACAAGGCTCTGGAGCCCACCAAGTCCAAGGTCCAAGAACAACCAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAAGAAAA	ં, છ <u></u> છુ	Oy 2540 TGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATGACAAGGTCTTCCTGGACACCC 2599

g

ઠે

임

ò

```
44766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTTATTGGTTAAGGAGACAATTTTGGAGAGCAAGCAAATCTTCTTTTAAAAAATAGTAT 45126
                                                                                                                                                                                                                                    44586
                                                                                                                                                                                                                                                                                    44646
                                                                                                                                                                                                                                                                                                                                      44706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         44946
                                                                                                                                                                                                                                                             3259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3499
                                                                                                          3079
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGCGCCATAAGTCAGTTGAGTATTTGATCCCTAGATAAGAACATGCAAATCAGCAGGAAC 3619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGTCATACAGGGTAAGCACCAGGGACAATAAGGATTTTTATAGATATAAATTTAATTTTT 3679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTTATTGGTTAAGGAGACAATTTTGGAGAGCAAGCAA---TCTTTTTAAAAAATAGTAT 3736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1400, Application US/09023655
Patent No. 6607879
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Susan G. Stuart
APPLICANT: Susan G. Stuart
APPLICANT: Officey J. Seilhamer
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1508
                                                                                                                                                                                                                                                                                                            TGGGGAATCCAATTATAGTTGCTTTGTATTTAAAAACAAGAACAAGGCTTGTTGGC
                                                                                                                       TGCTTCCATAAACAAGTGCAATTTTTTAAAGTGCTGTCTTACTAAGTCTTGTTTATTAAC
                                                                                                                                                                                                                                                                                                                                                               TATCCCTAGCAGAGGCTGTTCACCTTCCCTGTCGATCCCTTCTGAGGTATGGCCCATC
                                                                                                                                                                                                                                                                                                                                                                                                                  CAAGACTITITAGGCCATICTIGATGGAACCAGATCCCTGCCTGACTGTCCAGCTATCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAAAGTGGATCAGATTATAAACTGGATTACATGTAACTGTTTTGGTTGTTGTTCTATCAAC
                          44287 TTGGACAATGCTATCCCAGCAGAAAAAAAAGGATAATATAAACTGTTTTAAAACTCTTTC
                                                                                                          CAGGGTAGGATGTGTCTTAAAGATTGGTCCCTTGAAAATATGCTTCCTGTATCAAAGGTA
                                                                                                                                                                                                            AAATGGTGAAAGATGGAGGATTACCTACAAATCAGACATGGCAAAACAATAATGGCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-023-655-1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            44887
                                                                                                                                                                                                              3140 /
                                                                                                                                                                                                                                                                                                                                                                                                                   3380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 45067
                                                            2960
                                                                                    44347
                                                                                                                                                              3080
                                                                                                                                                                                                                                      44527
                                                                                                                                                                                                                                                               3200
                                                                                                                                                                                                                                                                                                                                                                  3320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44947
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  45127
           2900
                                                                                                             3020
                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>ک</u> ۾
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                             g
                                                                                                                                                                               g
                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                 Š
                                                         à
                                                                                요
                                                                                                    ⋧
                                                                                                                                                      ð
                                                                                                                                                                                                       ∂
                                                                                                                                                          ABPLICANT: VENTER, J. Craig et al.

APPLICANT: VENTER, J. Craig et al.

APPLICANT: VENTER, J. Craig et al.

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TITLE REPERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT PILING DATE: 2000-04-14

PRIOR PAPLICATION NUMBER: 60/241,755

PRIOR PELING DATE: 2000-10-03

PRIOR FILING DATE: 2000-10-03

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastESE for Windows Version 4.0

LENGTH: 47184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        43806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            43986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2839
                                                                 TGGGGTGGGAGGGGGTTATAGTTCATGAGGGTTTTCTAAGAAATTGCTAACAAAGCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2540 TGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATTGACAAGCTCTTCCTGGACACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2600 TACCTITCTAATCAGGAGCAGTGGAGCAGTGAGCTGCCTCCTCTCCTAGCACCTGCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCAGCTCCTGTAGAAAGCAAAGACTTTCTTTTTTTTCTGGCTCTTTTCCTTACAACCTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2780 AGCCAGAAAACTTGCAGAGTATTGTGTTTGGGGTTGTGTTTTATATTTTAGGCATTGGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13747 CAGAAAGACATGGGTTAAAAGAACCAAAGAGAGTCGAAGAGCTATGCAACAAGATCACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCAGTITIAAAAGACCACCAGAGTAAGGGACAGGCTCTGGAGCCCACCGAGTCCAAGGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2360 CAGAAAGACATGGGTTAAAAGAACCAAAGAGGGTCGAAGAGCTATGCAACAAGAGTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 37.4%; Score 1420.4; DB 3; Length 47184; Best Local Similarity 99.7%; Pred. No. 3e-304; Matches 1434; Conservative 0; Mismatches 1; Indels 3; (
                                                                                                                                     ; Sequence 15531, Application US/09949016; Patent No. 6812339
                                                                                                                                                                                                                                                                                                                                                                                                        US-09-949-016-15531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2840
                                                3737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2420
3680
                                                                        15127
```

요 ઠે g 8 Dp à

ઠે

දු පු

8 6

8 名.

음 장

<u>ዓ</u> g

```
; Search time 2619 Seconds
(without alignments)
11979.389 Million cell updates/sec
                                                                                                                                                                                                                                                                                            1 ataaatgacgtgccgagaga.....gtgtgagtactaggaaggat 3794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Published Applications NA Main:*

1: /cgn2_6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*

2: /cgn2_6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*

3: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

4: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

5: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

6: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

7: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*

10: /cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:*
GenCore version 5.1.7 (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19587084
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                         9793542 segs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                               - nucleic search, using sw model
                                                                                                                                              March 17, 2006, 23:14:51
                                                                                                                                                                                                                                                                                                                                             IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                US-10-608-863-1
                       Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9:
                                                                                                                                                                                                                                                                     Perfect score:
                                                                                                                                                                                                                                                                                                                                                Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Minimum DB Maximum DB M
                                                                                               OM nucleic
                                                                                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Database
                                                                                                                                              Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

229, App 928, App 47, Appl 3, Appli 2, Appli Sequence 1816, Ap Sequence 6088, Ap 209, App 57, Appl Sequence 1, Sequence 78 Sequence 1, Description Sequence US-10-608-863-1 US-09-853-386-46 US-09-853-386-78 US-10-414-080-115 US-10-659-004-115 US-10-059-004-115 US-10-059-004-115 US-10-25-889-63 US-10-75-889-63 US-10-75-889-63 US-10-843-641A-229 US-10-853-386-47 US-10-119-803-209 US-10-119-803-209 US-10-119-803-209 US-10-114-080-2 US-10-119-803-209 US-10-114-080-2 US-10-114-080-8 US-10-114-080-8 US-10-114-080-8 US-10-853-386-57 US-10-114-080-8 US-10-114-080-8 US-10-114-080-8 US-10-114-080-8 US-10-114-080-8 US-10-114-080-8 US-10-114-080-8 US-11-060-756-1816 US-11-060-756-6088 SUMMARIES Length DB 33794 38802 38802 38802 58802 4444 44977 44977 44400 600 600 600 600 Query Match 1 97.0 96.7 75.8 75.8 70.9 65.9 2371 1485.6 1485.6 1022.8 1022.8 553.2 Score No. Result

9 9 CCGCCCCCACCCCTCCAGCTCCTGCTCCTCCTCCGCTCCCCATACACAGACGCGCTCA 120

61

ò 요 121 121 181

> ద Š

8 . B

1 ATAAATGACGTGCCGAGAGAGCGAGCGAACGCGCAGCCGGGAGAGCGGAGAGTCTCCTGCCT 1 ATAAATGACGTGCCGAGAGAGAGGCGAAACGCGCAGCCGGGAGGGGGAGTCTCCTGCCT

61 CCCGCCCCCACCCCTCCAGCTCCTGCTCCTCCTCCCCCCTTACACACAGACGCGCTCA 120 CACCCGCTCCCTCACTCGCACACACACACAAGCGCGCACACAGGCTCCGCACACAC 180  TTGGCTCTCCCGCGCGCTCACACCCCTCTTGCCCTGAGCCCTTGCCGGTGCAGCGCGGCG 240

	FOR	
14, Appl 5653, Ap 94, Appl 56, Appl 56, Appl 11, Appl 11, Appl 3, Appl 3, Appl 31, Appl 101, App 66, Appl 500, Appl 11, Appl 11, Appl 12, Appl 11, Appl 12, Appl 13, Appl 14, Appl 14, Appl 14, Appl 16, Appl 17, Appl 18, Appl 11, Appl 11, Appl 11, Appl 12, Appl 13, Appl 11,	AND DRUGS	0;
14, Appl 563, Appl 56, Appl 25, Appl 25, Appl 10, Appl 11, Appl 31, Appl 24, Appl 31, Appl 26, Appl 26, Appl 27, Appl 29, Appl 11, Appl 11, Appl 12, Appl 11, A		Gaps
sequence seq sequence sequence sequence sequence sequence sequence sequence sequence	DISEASES,	3794;
\( \alpha \) \( \a		
	ALIGNMENTS 608863 A1 C DISEASES 0 US.10/608,863 6-27 2002-188490	Length
m 0	AEJ	8 ;
-386-14 386-14 951-94 951-95 951-56 386-4 951-46 91-40 91-10 91-10 91-66	FOR	DB
9-853-386-14 0-205-951-94 0-205-951-95 0-205-951-56 9-853-386-4 0-1853-386-4 0-205-951-45 0-205-951-45 0-205-951-45 0-205-951-45 0-247-671-10-3 0-853-386-29 0-853-386-29 0-853-386-29 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75 0-205-951-75	S NO	4; 0; hes
$\begin{array}{c} 225 \\ 25 \\ 25 \\ 25 \\ 25 \\ 25 \\ 25 \\ 25$	ALIGNMENTS  XAMINATION EASES /608,863	ore 3794; ed. No. 0; Mismatches
9-853-	AMIN SOS, SOS, SEE	Score Pred. Mism
US-09 US-10	ALIG ALIGO B863 40214192A1 40214192A1 8yoichi 8hinji 8hinji 8hinji 8hinji 8hinji 1.0013 ALIERGIC DISEASE 1.003-00-27 2.003-06-27 1.18 8T. 2.0	Sco Pre
	-1 Application US/10608863 No. US20040214192A1 No. US20040214192A1 No. US20040214192A1 RAGAYANS RAGAYAS, Shinisis Sajta, Yuji Sugita, Yuji Sugita, Yuji Sugita, Yuji Salto, Hirohisa AVENTION: METHODS FOR EX VENTION: METHODS FOR EX USANTION NUMBER: US/10/ CATION NUMBER: US/10/ CATION NUMBER: JP 2002- CATION NUMBER: JP	0
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7/10 1922 1923 1920 1931 1960 1960 1960 1960	100.0%; 100.0%; ive
33 446 446 33 446 446 446 447 447 447 447 447 447 447	pplication US/10 o. US20040214192 MATION: ashida, Ryoichi Kagaya, Shinji Yayoi, Yoshinio Sugita, Yuji Salto, Hirohisa Salto, Hirohisa ENTION: ALLERGI CE: 3462.1003-00 ICATION UNBER: JP ATION UNBER: JP DATE: 2003-0 O ID NOS: 18 tentin Ver: 2.0 4 omo sapiens DS	100 larity 100 Conservative
	Application [ Application [ 1 No. US2004021 ONEMATION: Hashida, Ryoi Kagaya, Shii Yayoi, Yoshii Sugita, Yuji Sugita, Yoji Homo sapiens CDS CDS CDS CDS	:y irva
	Licati TIOS20 TIOS20 TIOS20 Gaya, Yori, TION: TION: TION: TION: TION: TION: TION: TION: TION: TION: TION: TION: TION: TION: TION: TION NUM: TION N	rit
еееееееееее	-1 Applicat No. US20 ORWATION: Hashida, Kagaya, Yayoi, Sugita, Sugita, Salto: Salto: Salto: Salto: CATION LING DATE CATION NG DATE: SEQ ID NO PATE: SEQ ID NO PATE: PATE	i i
$\frac{1}{2}$	1-863-1 ie 1, Applicati ition No. 1050: i. INFORMATION: i. ANT: Hashida, i. ANT: Kagaya, i. ANT: Kagaya, i. ANT: Kagaya, i. ANT: Saito, i. EFERENCE: 3462 i. M. APPLICATION NU T FILING DATE: 2 i. OF SEQ ID NOS RE: PATENT ON SAPI II. 3794 i. 3794 i. 3794 i. No. 1 i. II. M. O. 2 i. II. M. O. 340 i. M. O. 340	, Match Local Similarity Les 3794; Conser
. ०० के किए ता	1. 966; (tio) (tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio) (Tio)	atc cal 37
40000000000000000000000000000000000000	ULT 1  10-608-863-1  equence 1, Application US/10608863  equence 1, Application US/10608863  eduence 1, Application US/10608863  ENERAL INFORMATION: APPLICANT: Ragaya, Shinji APPLICANT: Ragaya, Shinji APPLICANT: Sajita, Yuji APPLICANT: Sujita, Yuji APPLICANTON: MITHODS: FOR EXAMINAT: TITLE OF INVENTION: ALLERGIC DISEASES TITLE OF INVENTION: ALLERGIC DISEASES CURRENT APPLICATION NUMBER: US/10/608/86; CURRENT FILING DATE: 2003-06-27  NUMBER OF SEQ ID NOS: 18  EQUENCIN: 3794  TYPE: DNA  CREATURE: FRATURE: FR	
00000000000000000044444444444444444444	RESULT 1  US-10-608-863-1  Sequence 1, Application US/1060  Sequence 1, Application US/1060  GENERAL INFORMATION: APPLICANT: Hashida, Ryoichi APPLICANT: Kagaya, Shinji APPLICANT: Sajto, Hirohisa APPLICANT: Sajto, Hirohisa APPLICANT: Sajto, Minji APPLICANT: Sajto, Minji APPLICANT: Sajto, Mirohisa  TITLE OF INVENTION: ALLERGIC TITLE OF INVENTION: ALLERGIC CURRENT FILING DATE: 2003-06- PRIOR FILING DATE: 2002-06-27  NUMBER OF SEQ ID NOS: 18  SOFTWARE: PARENTION NUMBER: US  SOFTWARE: PARENTIN NUMBER: US  SOFTWARE: US  NUMBER OF SEQ ID NO: LENGTH NO: 2.0  LENGTH: 3794  SEATURE: NUMBER OF SEQ ID NO: LENGTH NO: 1.0001  LENGTH: 3794  SEATURE: NUMBER OF SEQ ID NO: LENGTH NO: 1.0001  SEG ID NO: LENGTH NO: 1.0001	Query Match Best Local Matches 379
	REE US.	

TREA

1311   CCGATICCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5
15   TITCOTTOTCCCCCCCCCCCTCAACCCCTTACCCCTTACCCCTTACCCCTTACCCCTTCCCCCC

NURR

Qy         3599 ARCHTGCAAATCAGCAGGAACTGGTCATACAGGGTAAGCACCAGGGACAATAAGGATTTT         368           b         3601 AACATGCAAATCAGCAGGAACTGGTCATACAGGGTAAGCACCAGGGACAATAAGGATTTT         360           Qy         3659 TATAGATATATATTTTGTTATTGGTTAAGGAGA-CAATTTTGGAGGCAAGCA         3715           b         3661 TATAGATATATATTTTTGTTATTGGTTAAGGAGA-CAATTTTGGAGGCAAGCA         3715           Db         3716 AATCTTTTTAAAATTTTTGGTAATTGGGTTAAGGAGCCAATTTTGGAGGCAAGCA         3720           Qy         3716 AATCTTTTTAAAAAATAGTATGAATGGAATACTAGAAAAAATAGTAT         3772           Db         3721 AATCTTCTTTTTAAAAAAATGTATGAATGTGAATACTAGAAAAAATTTAAGAAAATAGTAT         3780           Qy         3773 GAGTGAGTACTAGGAAGGAT         3794           Db         3781 GAGTGAGTACTAGGAAGGAT         3802	RESULT 3 US-09-853-386-78 US-09-853-386-78 Sequence 78, Application US/09853386 Fatent No. US20020049111A1 GENERAL INFORMATION: APPLICANT: Murphy, Evelyn APPLICANT: Conneely, Orla TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors FILE REFERENCE: P01972U31 CURRENT PILING DATE: 2001-05-11 FRIOR PILING DATE: 2000-05-12 NUMBER OF SEQ ID NOS: 153 SOFTWARE: Patentin version 3.1 SEQ ID NO 78 LENGTH: 3802 TYPE: DAA ORGANISM: HUMAN US-09-853-386-78	Query Match         98.1%; Score 3722; DB 3; Length 3802;           Best Local Similarity 99.4%; Pred. No. 0;         Matches 3779; Conservative 0; Mismatches 15; Indels 8; Gaps 4;           Qy         1 ATAAATGACGTGCGAGAGAGAGAGAGAGAGAGAGAGAGAG	Qy         121 CACCCGCTCCCTCACTCGCACACACACACGCGCACACAGGCTCCGCACACAC 178           b         121 CACCCGCTCCCTCACTCGAACACACACACAGCGCACACAGGCTCCGCACACACA	Qy         239 CGCCGCAGCTGGACCCCTCCCGGGCTCACTTTGCAACGCTGACGGTGCCGGCAGTGGC         298           Db         241 CGCCGCAGCTGCCTCCCCTCCCGGGCTCACTTTGCAACGCTGACGCTGGCCGGCAGTGGC         300           Qy         299 CGTGGAGGTGGGAGCGCGCATCCTCCCCCCTGGTCACAGCCCAGGCCGC         358           Db         301 CGTGGAGGTGGGAACAGCGGCGCATCCTCCCCCTGGTCACAGCCCAAGCCCAGGACGC         360           Qy         359 CGCGGAACCTCTCCGGCTGCTCCTCCCCTGGTCACGCACACCCCCACAGCCG         418           Cy         359 CGCGGAACCTCTCCGGCTGTCCTCCCCATGAGTCGCAGCATCCCCCACCAGCCG         418           Db         361 CGCGGAACCTCTCCGGCTGTCCTCCCCATGAGTCGCAGCATCCCCCACCAGCCG         420
QY         2519         GCCTCCAGCGCATCTTCTACCTGAAGCTGGAAGACTTGCTGTCTCCACCTTCCATCATTG         2578           Db         2521         GCCTCCAGCGCATCTTCTACCTGAAGCTGGAAGACTTGCTGCTCCACCTTCCATCATTG         2580           QY         2579         ACAAGCTCTTCCTGGACACCCTTCTAATCAGGAGCAGTGGAGCAGTGGCT         2638           Db         2581         ACAAGCTCTTCCTGGACACCCTTCTAATCAGGAGCAGTGGAGCAGTGGCT         2640           QY         2639         CCTCTCCTAGCACCTTGCTACCTTTCTAATCAGGAGCAGTGGAAGCTGCTTCTTTCC         2698           Db         2631         CCTCTCCTAGCACCTGCTTGCTAGCAGCAAGGGATTGGAAACTATTCC         2700           QY         2699         TGTCTTCCTTAAGAGCAAAGCAGCTGCTGTAGAAAGCAAAGACTTTCTTT	2759 GCTCTTTCCTTACAACCTAAAGCCAGAAACTTGCAGAGTATTGTGTTGTTTGT	3119 TCCTTCTTCTTTAACAAATGGTGAAAGATGGGGGATTACCTACAAATCACACT 3178  3121 TCCTTCTTCCTTTTAACAAATGGTGAAAGATGGGAGGATTACCTACAAATCAGACAT 3179  3121 TCCTTCTTCCTTTTAACAAATGGTGAAAGATGGAGGATTATTTAAAGACAT 3180  3179 GGCAAAACAATAATGGCTGTTTGCTTCCATAAACAAGTGCAATTTTTTAAAGTGCTGTCT 3238  1181 GGCAAAACAATAATGGCTGTTTGCTTCCTTAAACAAGTGGAAATTTTTTAAGTGCTGTCT 3240  3239 TACTAAGTCTTGTTTAACTCTCCTTTAATCTAATGGAAATAAAAAGGAGGCAGTCA 3298	3299 TGTTAGCAAATGACACGTTAATATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGTCGATC 3358	3419 CCCTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATAAACTGGATTACATGTAACTG 3478  3421 CCCTGACTGTCCAGCTATCCTGAAAGTGGATTATAAACTGGATTACATGTAACTG 3480  3479 TTTTGGTTGTTCTATCACCCCACCAGAGTTCCCTAAACTTGCTTCAGTTATAGTAAC.3538  1481 TTTTGGTTGTTTCATCACCCCACCAGAGTTCCCTAAACTTGCTTCAGTTATAGTAAC.3540  3539 TGACTGGTATTCATTCAACCCCACCAGAGTTCCCTAAACTTGTTCATTAGTAAC 3540  3539 TGACTGGTATTTCATTCAACAGAGTTCATTAGTAATTGATCCCTAGATAAG 3598

1559   TOCCOTCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8
8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0
4.19 CTCACCOCCTICCOGGAACCCCTTGTAAAACCCCACACCCCTTCACAAACCCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACCTTCACAACA

S

유

```
CCGCCCCCCCCCTCCAGCTCCTGCTCCTCCTCCCCCCATACACACAGACGCGCTCA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGTGGAGGTGGGAACAGCGGCGGCGCATCCTCCCCCCTGGTCACAGCCCAAGCCAGGACGCC 358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301 cerecaderescados de conferencios de conferencia de conferencia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGCGGAACCTCTCGGCTGTGCTCTCCCATGAGTCGGGATCGCAGCATCCCCCACCAGCCG 418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACTICGCICTCCCGCGCGCTCACACCCCTCTTGCCCTGAGCCCTTGCCCGTGCAGCGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CACCCGCTCCCTCACTCGCACACACACACGCGCGCGCACACGCCTCCG--CACACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGCCGCAGCTGGACGCCCCTCCCGGGCTCACTTTGCAACGCTGACGGTGCCGGCAGTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATAAATGACGTGCCGAGAGAGAGCGAAACGCGCAGCCGGGAGAGGCGGAGTCTCCTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181 ACTTCGCTCTCCCGCGCTCACACCCCTCTTGCCCTGAGCCCTTGCCGGTGCAGCGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ATAAATGACGTGCCGAGAGAGAGCGAACGCGCAGCCGGGAGAGCGGAGTCTCCTGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 8; Length 3802;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 0;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98.1%; Score 3722; 99.4%; Pred. No. 0;
                                                                           Sequence 115, Application US/10659004
Publication No. US20050048507A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 98.1'
Best Local Similarity 99.4'
Matches 3779; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (732) .. (2609)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; LUCALLO...
US-10-659-004-115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              음 · 중 · 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 음 중 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                               2880
                                                                                                                                                                                   2938
                                                                                                                                                                                                                                                          2998
                                                                                                                                                                                                                                                                                           3000
                                                                                                                                                                                                                                                                                                                                3058
                                                                                                                                                                                                                                                                                                                                                                    3060
                                                                                                                                                                                                                                                                                                                                                                                                        3118
                                                                                                                                                                                                                                                                                                                                                                                                                                            3120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3418
2701 IGICCTICCTIAAGAGGAAAAGCAGCICCTGIAGAAAGCAAAGACTITCTTTTTTTTCTG 2760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATAAACTGGATTACATGTAACTG 3480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGACTGGTATATTCATAGAAGCGCCATAAGTCAGTTGAGTATTTGATCCCTAGATAAG 3598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AACATGCAAATCAGCAGGAACTGGTCATACAGGGTAAGCACCAGGGACAATAAGGATTTT 3658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TATAGATATATTTAATTTTGTTA--TTGGTTAAGGAGA-CAATTTTGGAGAGCAAGCA 3715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA---TCTTTTAAAAAATAGTATGAATGTGAATACTAGAAAAGATTTAAAAAATAGTAT 3772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAACAGCCAAGGGTTGTTCGCCCAGGTAGGATGTGTCTTAAAGATTGGTCCCTTGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                           3061 ATGCTTCCTGTATCAAAGGTACGTATGTGGTGCAAACAAGGCAGAAACTTCCTTTTAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TACTAAGTCTTGTTTATTAACTCTCCTTTATTCTATATGGAAATAAAAGGAGGCAGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTTAGCAAATGACACGTTAATATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGTCGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTTCTGAGGTATGGCCCATCCAAGACTTTTAGGCCATTCTTGATGGAACCAGATCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCCTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATAAACTGGATTACATGTAACTG
                                                            2761 GCTCTTTTCCTTACAACCTAAAGCCAGAAAACTTGCAGAGTATTGTGTTGGGGTTGTGTGT
                                                                                                         TTATATTTAGGCATTGGGGATGGGGTGGGAGGGGGTTATAGTTCATGAGGGTTTTCTAA
                                                                                                                                           GAAATTGCTAACAAAGCACTTTTGGACAATGCTATCCCAGCAGGAAAAAAAGGATAATA
                                                                                                                                                                                                                                                     TAACTGTTTTAAAACTCTTTCTGGGGAATCCAATTATAGTTGCTTTGTATTAAAAACAA
                                                                                                                                                                                                                                                                                       GAACAGCCAAGGGTTGTTCGCCAGGGTAGGATGTGTCTTAAAGATTGGTCCCTTGAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                    ATGCTTCCTGTATCAAAGGTACGTATGTGGTGCAAACAAGGCAGAAACTTCCTTTTAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCCTTCTTCCTTTATTTTAACAAATGGTGAAAGATGGAGGATTACCTACAAATCAGACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGCAAAACAATAATGGCTGTTTGCTTCCATAAACAAGTGCAATTTTTAAAGTGCTGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGCAAAACAATGGCTGTTGCTTCCATAAACAAGTGCAATTTTTTAAAGTGCTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3241 TACTAGTCTTGTTTATTAACTCTCCTTTATTCTATATGGAATAAAAGGAGGCAGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3301 TGTTAGCAAATGACACGTTAATATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGTCGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTTCTGAGGTATGGCCCATCCAAGACTTTTAGGCCATTCTTGATGGAACCAGATCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTTTGGTTGTGTTCTATCAACCCCACCAGAGTTCCCTAAACTTGCTTCAGTTATAGTAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAGTGTGAGTACTAGGAAGGAT 3794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAGTGTGAGTACTAGGAAGGAT 3802
                                   2759
                                                                                                       2819
                                                                                                                                           2821
                                                                                                                                                                               2879
                                                                                                                                                                                                                 2881
                                                                                                                                                                                                                                                   2939
                                                                                                                                                                                                                                                                                                                           2999
                                                                                                                                                                                                                                                                                                                                                                                                    3059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3179
                                                                                                                                                                                                                                                                                                                                                                3001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3716
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3601
                                                                   셤
                                                                                                                                  임
                                                                                                                                                                           ò
                                                                                                                                                                                                    q
                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                   ઠે
                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       음 중 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요 성
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
```

178 180 238 240 298

9 9

8;

1499 COCCITCIOGECTICACOCCITCCCTRACCOCTICACCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG
B 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6
19 COCCOGNACTICTCGGCTTGGCTTTCCCATGAGCTCTTCGGGACTCTCCCCCCCC

	19-10-102-103-103-103-103-103-103-103-103-103-103	
2577 TGACAAGCTCTTCCTGGACACCCTACCTTTCTAATCAGGAGCAGTGGAGCAGTGAGCTGC 2636  [		3657 TTTATAGATATAATTTTAATTTTGTTATTGGTTAAGGAGACAATTTTGGAGAAGCAAGC

1501   GEGETTEGGCCTCGCCCCCCCCCCCCCCCCCCCCCCCCC
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
419 CTCACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

970 970 970 970 970 970 970 970	1114 GAPACCGARGIACISTICGATITICAGAGGICTCGGIGITGGAAIGGIGIGIGIGIGIGIGIGIGIGIGIGIGI
8 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	8 6 8 6 8 6 8
2666 ACACOTTAMPATCCTAGAGAGCTAGTTCATCCCTAGACCTACTTCAGGATA 2725  9 3371 TGGCCCATCCAGAGACTTTTGGCCATTCATCCTAGACCAGATCCCTCCC	Query Match         75.8%; Score 2875; DB 7; Length 4977;           Best Local Similarity 98.1%; Pred. No. 0;         Matches 3008; Conservative 0; Mismatches 40; Indels 19; Gaps 9;           Qy         733 CCTGGGTCCAAGCCCAATATAGCGCTTCCCTTCAGGTTCAGTTATGCGG-CGCAGA 790           Db         94 CCTGTCGTCCAAGCCCAATATAGCCCTTCCCCTCCAGGTTCAGTTATGCGGTCGTCAGA 153           Qy         791 CATACAGCTCGAATATAGCCCTTCAGAGTTCCAGTTATGCGGTCGTCAGA 153           Qy         791 CATACAGCTCGAATATAGCACAGGAGTCATGAACCCCACTACACCAAGCTGACCATGG 850           Db         154 CATACAGCTCGGAATACACACGAGATCATGAACCCCAACCAA

8 6 8 6 8 6

131   TOTALOGRANGSTRANDARD CARACTERISTIC	RESULT 10  WESULT 10
1991   CONCIGACCAGGCTGCTGCAGGCACAATTCTGAGCATTGCAACAATTCTACAACCTCC 2050   1154   CONCTGACCAGGCTGCTGCAGCACAATTCTGCAACAACATTCTACAACCTCC 1113   1144   TGACGCCTCCATTGCAGGCACAAATTCTGAGCATTCTTGCAACATTCTTGCAACATTCTTGCAACATTTTGCAGAATTCTTGCAACATTTTGCAGAATTCTTGCAACATTTTGCAGAATTCTTGCAACATTTTGCAGAATTCTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTGCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCACAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTTCAGAATTTAATTTAATTTAATTAA	2771 ACAACCTAAAGCCAGAAAACTTGCAGAGTATTGGTTTTTTATATTTTAGGC 2830 2134 ACAACCTAAAGCCAGAAAACTTGCAGAGTATTGTTTGGTTTTTATATTTTAGGC 2830 2134 ACAACCTAAAGCCAGAAAACTTGCAGAGTTGTTGGTTTTATATTTTAGGC 2193 2134 ATTGGGGGGTGGGGGTTATTGTTCATGGGGGTTTTTATATTTTAGGC 2193 2194 ATTGGGGGGTGGGGGGTTATTGTTCATGAGAGATTTCTAAGAAATTGCTAAC 2194 ATTGGGGGGATGATGCTATCCCAGGGGAAAAAAAAAAAA

us-10-608-863-1.rnpbm

```
1054 AGAAAAATGCAAAATATGCTTGGCAAATAAAAACTGCCCAGTAGACAAGAGAGACGTC 1113
                                                                                                                                                                                                                                                                                                                                                                                                   CATTACAACAGGAACCTTCTCAGCCCTCTCCACCTTCTCCTCCAATCTGCATGATGAATG 1930
                                                                                                                                                                                                                                                                                                                                                                                                                  CATTACAACAGGAACCTTCTCAGCCCTCTCCACCTTCTCCTCCAATCTGCATGATG 1293
                                                                                                                                                                                                                                                                                                   1114 GAAACCGATGTCAGTACTGTCGATTTCAGAAGTGTCTCAGTGTTGGAATGGTAAAAGAAG
          CCAGCAGGAGCTCGTCGTCGAGGGCACGTGTGCCGTGTGCGGGGACAACGCCGCCT
                                                                                                                                                                    GCCAGCACTACGGCGTGCGAACCTGCGAGGGCTGCAAGGGCTTTTTCAAGAGAACAGTGC
                                                    934 ccAscassascresresresressassascaresresresresresassascaacecer
                                                                                                                                                                                                GCCAGCACTACGGCGTGCGAACCTGCGAGGGCTGCAAGGGCCTTTTTCAAGAGAACAGTGC
                                                                                                                                                                                                                                                                                                                                            TTGTCCGTACAGATAGTCTGAAAGGGAGGAGGAGGTCGTCTGCCTTCCAAACCAAAGAGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCCTTGTCCGAGCTTTAACAGACTCAACACCCAGAGATCTTGATTCCAGATACTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCTTGTCCGAGCTTTAACAGACTCAACACCCCAGAGATCTTGATTATTCCAGATACTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGACAGCCTCCATTGATGTATCCAGAAGCTGGGCAGAAAGATTCCGGGATTTACTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1414 TGACAGCCTCCATTGATGTATCCAGAAGCTGGGCAGAAAAGATTCCGGGATTTACTGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1474 TCCCCAAAGAAGATCAGACATTACTTATTGAATCAGCCTTTTTTGGAGCTGTTTTGTCCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1534 GACTTTCCATCAGGTCAAACACTGCTGAAGATAAGTTTGTGTTCTGCAATGGACTTGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCATGATCACAGAAAGACATGGGTTAAAAGAACCAAAGAGGTCGAAGAGTTGCAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCTTCTACCTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATTGACAAGCTCTTCC
                                                                                                                                                                                                                           AGAAAAATGCAAAATATGTTTGCCTGGCAAATAAAAACTGCCCAGTAGACAAGAGGTC
                                                                                                                                                                                                                                                                                   GAAACCGATGTCAGTACTGTCGATTTTCAGAAGTGTCTCAGTGTTGGAATGGTAAAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCACTGACCAGGCTGCTGCAGGCACAGATGCTGAGCATGTGCAACAATTCTACAACCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCATGATCACAGAAAGACATGGGTTAAAAGAACCAAAGAGAGTCGAAGAGCTATGCAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2411 AGATCACAAGCAGTTTAAAAGACCACCAGAGTAAGGGACAGGCTCTGGAGCCCACCGAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGATCACAAGCAGTTTAAAAGACCACCAGAGTAAGGGACAGGCTCTGGAGCCCACCGAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAAGGTCCTGGGTGCCTGGTAGAACTGAGGAAGATCTGCACCCTGGGCCTCCAGCGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCCCCAAAGAAGATCAGACATTACTTATTGAATCAGCCTTTTTTGGAGCTGTTTGTCCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GACTITCCATCAGGTCAAACACTGCTGAAGATAAGTTTGTGTTCTGCAATGGACTTGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCATCGACTTCAGTGCCTTCGTGGATTTGGGGAGTGGCTCGACTCTATTAAAGACTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCAAGGTCCTGGGTGCCCTGGTAGAACTGAGGAAGATCTGCACCCTGGGCCTCCAGCGCA
                                                                                                           1571
                                                                                                                                                                                               994
                                                                                                                                                                                                                                                                                                                                                                     1174
                                                    1511
                                                                                874
                                                                                                                                                                    1631
                                                                                                                                                                                                                                                                                   1751
                                                                                                                                                                                                                                                                                                                                          1811
                                                                                                                                                                                                                                                                                                                                                                                                   1871
                                                                                                                                                                                                                                                                                                                                                                                                                               1234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1294
                                                                                                                                                                                                                           1691
                                                                                                                                                                                                                                                                                                                                                                                                                                                            1931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1774
                          814
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2531
                                           ð
                                                                          a
                                                                                                           ઠે
                                                                                                                                a
                                                                                                                                                                 ò
                                                                                                                                                                                          요
                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                              8 8 8
                                                                                                                                                                                                                                                                                                                                                               요 요
                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1450
                                                                                                                                                                                                                                                                                                                             ę,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1451 ACCCGTACGGGCTGCCGCTGGCCAAGAGGGCGGCCCCGCTGGCCTTCCCGCCTCTCGGCC 1510
                                                                                                                                                                                                                                                                                                                                                                                                                850
                                                                                                                                                                                                                                                                                                                                                                                                                                           213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGGGCCCCAGCCGGCCGGCCGCCACCACCTCGGCTACGACCCGACGGCCGCTGCCGCGC 753
                                                                                                                                                                                                                                                                                                                                                                                                                            ACCTTGGCAGCACTGAGATCACGGCTACAGCCACCACGTCCCTGCCCAGCATCAGTACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGTGGAGGCTACTCGAGCAACTACGAACTCAAGCCTTCCTGCGTGTACCAAATGCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    334 GGCCCTTGATCAAAGTGGAGGGGGGGGGCCCCAGCTACCATCACCATCACCACCACCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTCGGCGCCCGGCTGCATCGCACCCGGCTGCTGGACCCGGCCGATGAAGGCGGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCACGGTGGCCGCGCGCTTCCCGCTCTTCAAGCCCTCGCCGCGCGCATCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCCTGCGTCCAAGCCCAATATAGCCCTTCCCCTCCAGGTTCCAGTTATGCGG--CGCAGA
                                                                                                                                                                                                                                                                                                                                                                               crercerceasgeceaararascecrrecerceasgraceagrarecesercasa
                                                                                                                                                                                                                                                                                                                                                                                                             CATACAGCTCGGAATACACCACGGAGATCATGAACCCCGACTACACCAAGCTGACCATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCTTGGCAGCACTGAGATCACGGCTACAGCCACCACGTCCCTGCCCAGCATCAGTACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCGTGGAGGCTACTCGAGCAACTACGAACTCAAGCCTTCCTGCGTGTACCAAATGCAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGCCCTTGATCAAAGTGGAGGAGGGGGGGGCGCCCAGCTACCATCACCATCACCACCACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAGCCCGGAGGACGAGGTGCTGCCCAGCACCTCCATGTACTTCAAGCAGTCCCCACCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCACCCCCACCACGCCGGCCTTCCCCCCGCAGGCGGGGGGGTTATGGGACGAGGCACTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCACGGTGGCCGCGCGCTTCCCGCTTCCACTTCAAGCCCTCGCCGCCGCATCCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCGCGCCCAGCCCGGCCGGCCACCACCTCGGCTACGACCCCGACGGCCGCTGCCGCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                           19;
                                                                                                                                                                                                                                                                                                Length 4977;
                                                                                                                                                                 - See File Wrapper or
                                                                                                                                                                                                                                                                                             Score 2875; DB 9; Length 4:
Pred. No. 0;
0; Mismatches 40; Indels
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: US/09/964,824
PRIOR FILING DATE: 2001-09-27
PRIOR PILING DATE: 2001-09-27
PRIOR PILING DATE: 2001-09-28
PRIOR FILING DATE: 2001-10-02
PRIOR PLING DATE: 2001-10-02
PRIOR PLING DATE: 2001-10-02
PRIOR PLING DATE: 2001-10-02
PRIOR FILING DATE: 2001-10-03
PRIOR FILING DATE: 2001-10-03
PRIOR FILING DATE: 2001-10-03
PRIOR FILING DATE: 2001-10-03
PRIOR PLING DATE: 2001-10-03
PRIOR DATE: 2001-10-03
                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 98.1%;
Matches 3008; Conservative
                                                                                                                                                                                                                                    ; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-843-641A-229
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         514
                                                                                                                                                                                                                                                                                                                                                     733
                                                                                                                                                                                                                                                                                                                                                                               94
                                                                                                                                                                                                                                                                                                                                                                                                                                        154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                454
                                                                                                                                                                                                                                                                                                                                                                                                            791
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         754
                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                               윱
                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ያ
ያ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        දු පු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 8
```

2290

1653

2350

2410

2470

2530

2590

요

Š

셤

ठे

ઠે

a

ઠે g ð g Š 셤 ò g Š 셤 ઠે a ò a ઠે ద ઠે 셤 ò 쉽 ò 셤 ઠે 셤 Š ద ર્જ 셤 δ 욥.

```
3079
                                                                                  3787
               3727
                                                                                                                        3139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  78
                                   3020 TTAATTTTTGTTATTGGTTAAGGAGACAATTTTGGAGAGGAGAGCAAATCTTTTTAAA
                                                                                                         3080 AAATAGTATGAATGTGAATACTAGAAAAGATTTAAGAAATAGTATGAGTGTGAGTCATAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                               CELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 7; Length 2714;
                                                                                                                                                                                                                                                                                                                                                                                               BLOOD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4; Indels
                                                                                                                                                                                                                                                                                                                                                                                               THE DETECTION OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PHARMACEUTICALS, INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 70.9%; Score 2689.6; Best Local Similarity 99.9%; Pred. No. 0; Matches 2692; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/10/641,643
FILING DATE: 14-Aug-2003
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: «Unknown»
FILING DATE: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; CLONE: 91311504
; SEQUENCE DESCRIPTION: SEQ ID NO: 928
US-10-641-643-928
                                                                                                                                                                                                                                                                                                                                                       Susan G. Stuart
Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FOR
GENE EXPRESSION
                                                                                                                                                                                                                                                                                  Sequence 928, Application US/10641643
Publication No. US20040077003A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: (650) 855-0555
                                                                                                                                                                                                                                                                                                                                          APPLICANT: Cocks, Benjamin G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 928:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 2714 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 1508
                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PH
STREET: 3174 PORTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: nucleic acid
STRANDEDNESS: singl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 94304
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
                                                                                                                                                                                             3140 GAAGGAT 3146
                                                                                                                                                            3788 GAAGGAT 3794
                                                                                                                                                                                                                                                                   US-10-641-643-928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          192
               3671
                                                                                      3728
                                                                                                                                                                                                                                                      RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                    g
                                                                                                                                                                                    g
                                         요
                                                                                    ò
                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2960 TCAGAGGACTGGTCATACAGGGTAAGCACCAGGGACAATAAGGATTTTATAGATATAATA 3019
                                                                   2013
                                                                                                       2710
                                                                                                                                           2073
                                                                                                                                                                            2770
                                                                                                                                                                                                                2133
                                                                                                                                                                                                                                                    2830
                                                                                                                                                                                                                                                                                        2193
                                                                                                                                                                                                                                                                                                                         2890
                                                                                                                                                                                                                                                                                                                                                             2253
                                                                                                                                                                                                                                                                                                                                                                                               2950
                                                                                                                                                                                                                                                                                                                                                                                                                                   2313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2904
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCATTCAGAAGCGCCATAAGTCAGTTGAGTATTTGATCCCTAGATAAGAACATGCAAATC 3610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3611 AGCAGGAACTGGTCATACAGGGTAAGCACCAGGGACAATAAGGATTTTTATAGATATAAT 3670
TCTTCTACCTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATTGACAAGCTCTTCC 1953
                                                                                                                          CCTGCTTGCTACGCAGCAAAGGGATAGGTTTGGAAACCTATCATTTCCTGTCCTTCTTA
                                                                                                                                                                                                                                                                                                                                                                                                                         TCAAAGGTACGTATGTGGTGCAAACAAGGCAGAAACTTCCTTTTAATTTCCTTCTTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGCCTGTTTGCTTC---ATAACAGCTGCAATTTTTAAAGTGCTGTCTTACTAAGTCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITATIAACICICCITIATICIAIAIGGAAAIAAAAGGAGGCAGICAIGITAGCAAAIG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           T---TATACTCTCTTATCTATATGCCGGAAATAAAAAGGGAGGCAGTCATGTTAGCAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACACGTTAATATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGTCGATCCCTTCTGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2905 TCATTCAGAAGCGCCATAAGTCAGTTGAGTATT--GATCCTAGATAAGAACATGCAA---
                                                    ACAACCTAAAGCCAGAAAACTTGCAGAGTATTGTGTTTGGGGTTGTGTTTTTATATTTAGGC
                                                                                                                                                                                                                                                                       ACAACCTAAAGCCAGAAAACTTGCAGAGTATTGTGTTGGGGTTTGTGTTTATATTTAGGC
                                                                                                                                                                                                                                                                                                                           <u> ATTGGGGGATGGGGTGGGAGGGGTTATAGTTCATGAGGGTTTTCTAAGAAATTGCTAAC</u>
                                                                                                                                                                                                                                                                                                                                                ATTGGGGGATGGGGGGGGGGTTATAGTTCATGAGGTTTTCTAAGAAATTGCTAAC
                                                                                                                                                                                                                                                                                                                                                                                                 AACTCTTTCTGGGGAATCCAATTATAGTTGCTTTGTATTTAAAAACAAGAACAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AACTCTTTCTGGGGAATCCAATTATAGTTGCTTTGTATTTAAAAACAAGAACAGCCAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTTGTTCGCCAGGGTAGGATGTGTCTTAAAGATTGGTCCCTTGAAAATATGCTTCCTGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gridriccccadedraedarcricriraadarriccriricaaaararcrircrera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TATTTTAACAAATGGTGAAAGATGGAGGATTACCTACAAATCAGACATGGCAAAACAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2494 TATTTTAACAAATGGTGAAAGATGGAGGATTACCTAC-AATCAGACATGGCAAAACAAT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGGCTGTTTGCTTCCATAAACAAGTGCAATTTTTTAAAGTGCTGTCTTACTAAGTCTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACACGTTAATATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGTCGATCCCTTCTGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2786 AGCTATCCTGAAAGTGGATCAGATTATAAACTGGATTACATGTAACTGTTTTGGTTGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGAGGAAAAGCTCCTGTAGAAAGCAAAGACTTTCTTTTTTTCTGGCTCTTTTTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAAAGGTACGTATGTGGGGCAAACAAGGCAGAAACTTCCTTTTAATTTCCTTCTTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGCCCATCCAAGACTTTTAGGCCATTCTTGATGGAACCAGATCCCTGCCCTGACTGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCTATCCTGAAAGTGGATCAGATTATAAACTGGATTACATGTAACTGTTTTTGGTTGTGT
                                                                                                       TGGACACCCTACCTTTCTAATCAGGAGCAGTGGAGCAGTGAGCTGCCTCCTCTCTAGCA
                                                                   1954
                                                                                                                                         2014
                                                                                                                                                                           2711
                                                                                                                                                                                                              2074
                                                                                                                                                                                                                                                    2771
                                                                                                                                                                                                                                                                                        2134
                                                                                                                                                                                                                                                                                                                         2831
                                                                                                                                                                                                                                                                                                                                                           2194
                                                                                                                                                                                                                                                                                                                                                                                               2891
                                                                                                                                                                                                                                                                                                                                                                                                                                 2254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3551
                                                                                                       2651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3491
1894
                                 2591
```

ö

```
1019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1338 CAGCCCGGCCGGCCACCACCTCGGCTACGACCCGGCCGCCGCCGCCGCCTCAGCCT 1397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    716
                                                                                                                                                                                                                                                                                                                                         749
                                                                                                                                                                                                                                                                                                                                                              719
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              959
338
                     300
                                                398
                                                                      359
                                                                                               455
                                                                                                                     419
                                                                                                                                             515
                                                                                                                                                                    479
                                                                                                                                                                                            575
                                                                                                                                                                                                                    539
                                                                                                                                                                                                                                           629
                                                                                                                                                                                                                                                                  599
                                                                                                                                                                                                                                                                                          689
                                                                                                                                                                                                                                                                                                                 629
                                                                                                                                                                                                                                                                                                                                                                                        809
                                                                                                                                                                                                                                                                                                                                                                                                               779
                                                                                                                                                                                                                                                                                                                                                                                                                                        869
                                                                                                                                                                                                                                                                                                                                                                                                                                                               839
                                                                                                                                                                                                                                                                                         630 CGGCGCTTCGCCTCGCTCCGCTCCTCTCTACACTCTCAGCCTCCGCTGGAGAGAC
630 GGCTGCTTCGCCTATCCCGACGTCCCCGCCTCCAGCCTCCGCTGGAGACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1074 CGAGGACGAGGTACTGCCCAGCACCTCCATGTACTTCAAGCAGTCTCCGCCGTCTACGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                   1020 TCATCACCACCACCAGCAG-----CAGCAGCCGTCCATTCCTCCTCCTCTGGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCCCGGCTGCATCGCACCCGGCCCGCTGCTGGACCCGCCGATGAAGGCGGTCCCCACGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1194 GCCTGGCTGCATCGCTCCGGGACCGCTGGACCCGCAGATGAAGGCAGTGCCCCCAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGCCGGCGCGCTTCCCGCTTTCCACTTCAAGCCCTTCGCCGCCGCCAATCCCCCCCGCGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAAACTCGCTCTAAAGACGGAACCGCCACAGACTCAAAGCCCCACTGCGGAAGAGGGGCAG
                                                                                                                                                                                                             540 CCCGACAAGCCCGGGGGCTGAGCCTGGACCCTCAACAGAGGGGGGCCAGCAGCAGCGGGGG
                                                                                                                                                                                                                                                                                                                                                           CCCCAGCCCCACCATTCAGCGCGCAAGATACCCTCCAGATATGCCTGCGTGCAAGCCCA
                                                                                                                                                                                                                                                                                                                                                                                                               720 ATATAGCCCTTCGCCTCCGGGGTCCACTTATGCCACGCAGACTTATGGCTCGGAATACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CACGGCTACAGCCACCACGTCCCTGCCCAGCATCAGTACCTTCGTGGAGGGCTACTCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAACTACGAACTCAAGCCTTCCTGCGTGTACCAAATGCAG------CGGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GATCAAAGTGGAGGGGGGGGGGCCCAGCTACCATCACCACCACCACCACCACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGAGGACGAGGTGCTGCCCAGCACCTCCATGTACTTCAAGCAGTCCCCACCGTCCACCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CACCACGCCGCCCTTCCCCCCCCGCAGGCGGTTATGGGACGAGGCACTGCCCTCGGC
               CTGACAGAGCGGCCAGTGGCCGTGGAGGTGGGAAACGTGGCGACATCCTAGCCCCTGGTC
                                                339 ACAGCCCAAGCCAGGACGCCGCGGAACCTCTCGGCTGTGCTCCCCATGAGTCGGGATC
                                                          GCAGCCGGAGACTGGAGCG-CTGCGGAACCTCTCGGCGGCGCTCTCCCATGAGTTGGGATC
                                                                                               GCAGCATCCCCCACCACCAC---GCTCACCGCCTCCGGGAGCCGCTGGGCTTGTACACCGC
                                                                                                               GCAGCATCCCCAGCCAGCCGCTGCTCCACCGCCTCTGGGAGCCGCTGGGTTTGTGCACCGC
                                                                                                                                                                     420 AGCCCTTCCGGGACAGCAGCTGTGACTCTCCCCCAATCCAGATTTCGGGGTCGCTCTCTA
                                                                                                                                                                                                                                           CCCGGCAAGCCCGGGCCCTGAGCCTGGACCCTTAGCGGTGCCGGGCCAGCA-----CTGC
                                                                                                                                                                                                                                                                                                                                          CCCCAGCCCCACCATTCAGCGCGCAAGATACCCTCCAGATATGCCCTGCGTCCAAGCCCA
                                                                                                                                                                                                                                                                                                                                                                                       ATATAGCCCTTCCCCTCCAGGTTCCAGTTATGCGGCGCAGACATACAGCTCGGAATACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                        CACGGAGATCATGAACCCCGACTACACCAAGCTGACCATGGACCTTGGCAGCACTGAGAT
                                                                                                                                                                                                                                                                                                                                                                 099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1278
                                                                                                                                                                                                                                                                                                                                                                                         750
                                                                                                                                                                                                                                                                                                                                                                                                                                         810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      978
                                                                                                                       360
                                                                                                                                               456
                                                                                                                                                                                                                                                                                                                                          690
 279
                      241
                                                                        301
                                                                                                399
                                                                                                                                                                                              516
                                                                                                                                                                                                                                            576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           q
                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 8
                                                                                                                                                                   g
                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                            8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ૪
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                              ò
                                                                 g
                                                                                               ð
                                                                                                                  a
                                                                                                                                        ò
                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                         Sequence 47, Application US/09853386

Patent No. US20020049151A1

GENERAL INFORMATION.

GENERAL INFORMATION.

APPLICANT: Murphy, Evelyn

APPLICANT: Conneely, Orla

APPLICANT: Conneely, Orla

APPLICANT: Fitzgerald, Oliver

TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR

TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors

FILE REFERENCE: PO1972U31

CURRENT APPLICATION NUMBER: US/09/853,386

CURRENT FILING DATE: 2000-05-11

PRIOR PALICATION NUMBER: US 60/203645

PRIOR PRIOR DELICATION NUMBER: US 60/203645
                                                                                               2591
                                                                                                                        2478
                                                                                                                                                                                              2711
                                                                                                                                                                                                                      2598
                                                                                                                                                                                                                                            2771
                        2358
                                                2531
                                                                                                                                               2651
                                                                                                                                                                                                                                                         223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCGGT----GCAGCGCGCGCGCAGCTGGACGCCCTCCCGGGGTCACTTTGCAACG 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                          CAACCTAAAGCCAGAAAACTTGCAGAGTATTGTGTTGGGGTTGTGTTTTATATTTA 2827
                                                                                                                                                                                                            CTGCTTGCTACGCAGCAAAGGGATAGGTTTGGAAACCTATCATTTCCTGTCCTTTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCTCCGCACACACT--TCGCTCTCCCGCGCGCTCACACCCCTCTTGCCCTGAGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTCCGCACACACACTCCCCTCCCCGCGCGCTCCACCCCCTCTCTCGGCGCCCTC
                                                                                               CITCTACCTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATGACAAGCTCTTCCT
                                                                                                           CTTCTACCTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATTGACAAGCTCTTCCT
                                                                                                                                             GGACACCCTACCTTTCTAATCAGGAGCAGTGGAGCAGTGGAGCTGCCTCCTCCTAGCAC
                                                                                                                                                                                                                                              GATCACAAGCAGTTTAAAAAGACCACCAGAGTAAGGGACAGGCTCTGGAGCCCCACCGAGTC
                                                               GGACACCCTACCTTCTAATCAGGAGCAGTGGAGCAGTGAGCTGCCTCCTCCTAGCAC
                                                                                                                                                                                              1 ccaagrerecracerecedecedecedecerecrasedecerecreerecreerecear
                                                CAAGGTCCTGGGTGCCCTGGTAGAACTGAGGAAGATCTGCACCCTGGGCCTCCAGCGCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 4400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches 535;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 2500;
Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 153
SOFTWARE: PatentIn version 3.1
SEQ ID NO 47
LENGTH: 4400
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 83.4%;
Matches 3131; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-09-853-386-47
                                                                                                                                                                                                                                                                                                                                                       RESULT 12
US-09-853-386-47
                                                2472
                                                                        2359
                                                                                                2532
                                                                                                                       2419
                                                                                                                                                                     2479
                                                                                                                                                                                                                    2539
                                                                                                                                                                                                                                            2712
                                                                                                                                                                                                                                                                     2599
                                                                                                                                                                                                                                                                                          2772
                                                                                                                                                                                                                                                                                                                   2659
                      2299
                                                                                                                                               2592
                                                                                                                                                                                              2652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              224
 2412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                g
                                                                                                                                                                ď
                                                                                                                                                                                     දු දු
                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                ద
                                        ò
                                                                 8 B
                                                                                                                                      8
                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                  જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
```

629 599 689 629 749 719 809 779 869 839 929 899 977

```
1254 GGCCGCTGCTGCGCGTTCCCGATCTTCTTCAAGCCCTCACCGCCACACCCTCCCGCGCC 1313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCGCTGGGAGCCGCCGCCGCGGCCAGCCAGGCCGCCGCGCGTTGAGAGCCACCCGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1194 GCCTGGCTGCATCGCTCCGGGACCGCTGGACCCGCAGATGAAGGCAGTGCCCCCAAT
                                                                                                                                                                                                                                                                                                                                                          900 CAGCTGCGAACTCAAGCCCTCCTGCCTGTACCAAATGCCGCCTTCTGGGCCTCGGCCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1134 GACCACTCCAGGCTTCCCCCCCCGCAGGCGGCGCTGTGGGACGACGAGGTGCCTCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCCGGCTGCATCGCACCCGGCCCGCTGCTGCACCCGCCGATGAAGGCGGTCCCCACGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCCCAGCCCCACCATTCAGCGCGCAAGATACCCTCCAGATATGCCCTGCGTGCAAGCCCA
                                                                                                                                                                                                                                                                     720 ATATAGCCCTTCGCCTCCGGGGTCCACTTATGCCACGCAGACTTATGGCTCGGAATACAC
                                                                                                                                                                                                                                                                                              CACGGAGATCATGAACCCCGACTACACCGAGCTGACCATGGACCTTGGCAGCACTGAGAT
                                                                                                                                                                                                                                                                                                            GATCAAAGTGGAGGAGGGGGGGCGCCCAGCTACCATCACCACCACCACCACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACCACGCCGGCCTTCCCCCCCCGCAGGCGGCGTTATGGGACGAGGCACTGCCCTCGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGCCGGCGCGCTTTCCCGCTTTCAAGCCCTCGCCGCCGCATCCCCCCGCGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGCCCGGCCGGCCACCACCTCGGCTACGACCCGACGGCCGCTGCCGCTCAGCCT
AGCCCTTCCGGGACAGCTGTGACTCCCCCCCAGTGCAGATTTCGGGACAGCTCTCTA
                                                                                              CCCGGCAAGCCCGGGCCCTGAGCCTGGACCCTTAGCGGTGCCGGCCAGCA-----CTGC
                                                                                                             CCCGACAAGCCCGGGCGCTGAGCCTGGACCCCTCAACAGCGGGGCCAGGACAGCGGCGGC
                                                                                                                                               630 CGGCGCTTCGCCTCGCCGGACGTCCGCTCCTACACTCTCAGCCTCCGCTGGAGAGAC
                                                                                                                                                            CCCCAGCCCCACCATTCAGCGCGCAAGATACCCTCCAGATATGCCCTGCGTCCAAGCCCA
                                                                                                                                                                                                                                             ATATAGCCCTTCCCCTCCAGTTCCAGTTATGCGGCGCAGACATACAGCTCGGAATACAC
                                                                                                                                                                                                                                                                                                                                              CACGGCTACAGCCACCTCCCTGCCCAGCATCAGTACCTTCGTGGAGGCTACTCGAG
                                                                                                                                                                                                                                                                                                                                                                                              CAACTACGAACTCAAGCCTTCCTGCGTGTACCAAATGCAG-------CGGCCCTT
                                                                                                                                                                                                                                                                                                                       780 (
                                                                                                                                                                                                                                                                                                                                                                       840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1338
                                                                                                                                                                                               069
                                                                                                                                                                                                                       099
                                                                                                                                                                                                                                                                                                810
                                                                                                                                                                                                                                                                                                                                                870
                                                                                                                                                                                                                                                                                                                                                                                               930
                                                                                                                                                                                                                                                                                                                                                                                                                                              978
                                                                         480
                                                                                                                       540
                                                                                                                                                                        200
                                                                                                                                                                                                                                               750
                                                516
                                                                                              576
                                                                                                                                                                                                                                                                                                                                                                                                                                        8 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 %
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 & 8 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
 8 8
                                       ያ ያ
                                                                                        ⋧
                                                                                                                셤
                                                                                                                                               8 6
                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                              Š
                         3590
                                                                                                 3687
                                                                                                                       3710
 3575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGACGGTGCCGGCAGTGGCCGTGGAGGTGGGAACAGCGGGGGGCATCCTCCCCCCCTGGTC 338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACAGCCCAAGCCAGGACGCCCGCGGAACCTCTCGGCTGTGCTCCCCATGAGTCGGGATC 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                             ACACAGACGCGCTCACACCGCTCCCTCACTACACACAGACACAAGCGCGCACACAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCCGGTGCCGCGCGCGCGCGCGCGGAGCCCCTCCAGGGCTCACTTTGCAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301 GCAGCCGGAGACTGGACG-CTGCGGAACCTCTCGGCGCGCTCTCCCATGAGTTGGGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCAGCATCCCCCACCAGCC---GCTCACCGCCTCCGGGAGCCGCTGGGCTTGTACACCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAGCATCCCCAGCCAGCCGCTGCTCACCCCTCTGGGAGCCGCTGGGTTTGTGCACCGC
 ---GCCATAAGTCAGT
                                                                      3591 cgarcaaggiraacccraggagaacargcaaaraagaggaacreggreagacagggra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCGGT-----GCAGCGCGGCGCCGCAGCTGGACGCCCCTCCCGGGCTCACTTTGCAACG
                        critracingraccaacinccicarinccarincacaaccaaacaaccangearingcingaci
                                                                                                 CGGAGTCTCCTGCCTCCCGCCCCCACCCTCCAGCTCCTGCTCCTCCTCCGCTCCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCGAGTCTCCTGCCTCCCGCCCCCCACCCTCCAGCGCCTGCTCCTCCTCCGCTCCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTCCGCACACACACT--TCGCTCTCCCGCGCGCTCACACCCCTCTTGCCCTGAGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 4400;
                                                                                                                                                                                                                               Sequence 3, Application US/1005169
; Publication No. US20020152492A1
; RENEAL INCORNATION:
; APPLICANT: Guencher, Catherine
; APPLICANT: Guencher, Catherine
; TITLE OF INVENTION: DISRUPTIONS
; TITLE OF INVENTION: DISRUPTIONS
; TITLE OF INVENTION: DISRUPTIONS
; FILE REPERENCE: A-687
; CURRENT APPLICATION NUMBER: US/10/005,169
; CURRENT APPLICATION NUMBER: US 60/251,794
; PRIOR FILING DATE: 2000-12-06
; PRIOR PLING DATE: 2001-12-06
; PRIOR FILING DATE: 2001-09-24
; NUMBER OF EQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 65.9%; Score 2500; DB 5; Length 4
Best Local Similarity 83.4%; Pred. No. 0;
Matches 3131; Conservative 0; Mismatches 535; Indels
                                                                                                                                                TTAAGGAGACAATTTTGGAGGAGCAAGCAAATCTTTT 3723
 CTTCAGTTATAGTAACTGACTGGTATATTCATTCAGAAGC-
                                                                                                                                                            TTA--TAGACAATTTTGGAAAGCAAGAGAATCATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: DNA
; ORGANISM: ratus norvegius
US-10-005-169-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                 4400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          339
                                                  3576
                                                                                                 3635
                                                                                                                                                3688
                                                                                                                                                                        3711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        399
                         3531
                                                                                                                        3651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          224
                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 3
                                         8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤,
                    셤
                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
 8
                                                                                                                                              8
```

1019

1097 1073 1157 1133

1037

959

1217

1193

1277

1253

1337

ર્જ

2574 CCTGCCTTTCTGAGCAGGGAAGCCTGAGCAGAGGCTACTTGCTCTGCTGGCACTGGTC 2633	2657 IGCTACGCAGCAAAGGGATAGGTITGGAAACCTATCATTTCCTGTCCTTCCTTAAGAGGA 2634 ATTAAGTGAGCAAAAGGATGGCTTTGAACCCT-GCCCTCTATCCTCTCCTC	2717	2752	2837	2895 CACTTTTGGACAATGCTATCCCAGCAGGAAAAAAAGGATAATATAACTGTTTT 2948	2949 AAAACICTITCIGGGAAICCAAITAIAGTIGCTITGIAITTAAAAACAAGAACAGCC 3006	3007 AAGGGTTG-TTCGCCAGGGTAGGATGTGTCTTAAAGATTGGTCCTTGAAAATATGCTTC 3065	3056 CTGTATCAAAGGTACGTATGTGGTGCAAACAAGGCAGAAACTTCCTTT 3113	3114 TAATTTCTTCTTCTTTATTAACAAATGGTGAAAGATGGAGGATTACCTACAAATCA 3173	3174 GACATGGCAAACAATAATGGCTGTTTGCTTCCATAAACAAGTGCAATTTTTAAAGTGC 3233	3231 TGTCTTACTAAGTCTTGTTTATTAACTCTCCTTTATTCTATATGGAAATAAAAAGGGGG 3293	3294 AGTCATGTTAGCAAATGACACGTTAATATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGT 3353	3354 CGATCCCTTCTGAGGTATGGCCCATCCAAGACTTTAGGCCATTCTTGATGGAACCAGAT 3413	3414 CCCGCCCTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATAAACTG 3463	3464 GATTACATGTAACTGTTTTGGTTGTGT-TCTATCAACCCCACCAGAGTTCCCTAAACTTG 3522	3523 CTTCAGTTATAGTAACTGACTGGTATATTCATTCAGAAGCGCCATAAGTCAGT 3575	3576 TGAGTATTTGATCCCTAGATAAGAACATGCAAATCAGCAGGAACT-GGTCATACAGGGTA 3634	3635 AGCACCAGGGACAATAAGGATTTTTATAGATATAATTTAATATTTTTGTTATTGG 3687
4G 	& 8 6	<b>ራ</b> ዋ	<b>상</b> 염	<i>장</i> 옵	<u>ራ</u>	<u>ک</u> ۾	· 중 옵	<b>장</b> 셤	ò 8	& ₽ ₽	ð 8	& €	& g	ò a	<i>&amp;</i> ₽	\$ A	& A	λ <sub>0</sub>
1518 CTCCCTACCGCGTCCAGCCTGCTGGGCGAGAGTCCCAGCCTGCCGTCGCCGCCAGCAG 1577	5 5=5	AAAAA        AAAAA		1758 AIGTCAGTACTGTCGATTTCAGAAGTGTCTCAGTGTTGGAATGGTAAAAGAAGTTGTCCG 1817 	1818 TACAGATAGTCTGAAAGGAGAGAGGTCGTCTGCCTTCCAAACCAAAGAGCCCATTACA 1877 		ACTGA       ACCGA	1998 CCAGGCTGCTGCAGGACACATGTCTGAGCATGTCCAACAATTCTACAACCTCCTGACAGC 2057 	2058 CTCCATTGATGTATCCAGAAGCTGGGCAGAAAAGATTCCGGGATTTACTGATCTCCCCAA 2117	2118 AGAAGATCAGACATTACTTATTGAATCAGCCTTTTTGGAGCTGTTTGTT	2178 CATCAGGTCAAACACTGCTGAAGATAAGTTTGTGTTCTGCAATGGACTTGTCCTGCAATGG 2237 					CTGGGTGCCTGGTAGAACTGAGGAAGATCTGCACCTGGGCCTCCAGGGATCTTCTA	38 CCTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATTGACAAGCTCTTCCTGGACAC	598

셤

8

```
1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1697
                                                                                                                                                                                                                                                                                                                                                1097
                                                                                                                                                                                                                                                                                                                                                                                                                                              1217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COGCTGCCGCTGGCCAAGAGGGCGCCCCGCTGGCCTTCCCGCCTCTCGGCCTCACGCC 1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTCCCCTACCGCGTCCAGCCTGCTGGGGGAGAGTCCCAGCCTGCCGTCGCCGCCCAGCAG 1577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTACGGAGTCCGCACCTGCGAGGCTGCAAGGGCTTCTTCAAGAGAACGGTGCAGAAAAA 1673
                                                                                                                                                                                                                                                                                                  1037
                                                                                                                                                                                                                                                                                                                         1019
                                                                                                                                                                                                                                                                                                                                                                       1073
                                                                                                                                                                                                                                                                                                                                                                                               1157
                                                                                                                                                                                                                                                                                                                                                                                                                       1133
                                629
                                                         749
                                                                                                       809
                                                                                                                                                                            839
                                                                                                                                                                                                    929
                                                                                                                                                                                                                            899
                                                                                                                                                                                                                                                    977
                                                                                                                                                                                                                                                                            959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGCTCCTCGTCTGCCGACGCACGTGCCCTCTGCGGGGACACGCCGCCTGCCAGCA
                                                                                                                                                                                                                                                                                                CTACGGCGTGCGAACCTGCGAGGGCTGCAAGGGCTTTTTCAAGAGAACAGTGCAGAAAAA
                                                                                                                                                                                                                   CAGCTGCGAACTCAAGCCCTCCTGCCTGTACCAAATGCCGCCTTCTGGGCCTCGGCCTTTT
                                                                                                                                                                                                                                                                                                                                                                                               GGAGGACGAGGTGCTGCCAGCACCTCCATGTACTTCAAGCAGTCCCCACCGTCCACCCC
                                                                                                                                                                                                                                                                                                                                                                                                           CACCACGCCGCCCTTCCCCCCCCCGCGGGGGCGTTATGGGACGAGGCACTGCCCTCGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           geccecrecrececrrcccearcrrcrrcaaeccrrcacecacacaccrcrcacec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCCCGGCCGCCACCACCACCACCACCGACGGCCGCTGCCGCCTCAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCGCTGGGAGCCGCAGCCGCGGGGCAGCCAGGCCGCCGCGCGCTTGAGAGCCACCCGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1374 ACCCCTGGGAGCCGCGCCGCCGCGGGCAGCCAAGCTGCGCTCGAGGGCCATCCGTA
                      600 GGCTGCTTCGCCTATCCCGACGTCCCCGCCTCCTACACTCTCAGCCTCCGCTGGAGAGAC
                                                                    CCCCAGCCCCACCATTCAGCGCGCAAAATACCCTCCAGATATGCCCTGCGTGCAAGCCCA
                                                                                                       ATATAGCCCTTCCCCTCCAGTTCCAGTTATGCGGCGCAGACATACAGCTCGGAATACAC
                                                                                                                       ATATAGCCCTTCGCCTCCGGGGTCCACTTATGCCAGACTTATGGCTCGGAATACAC
                                                                                                                                                       CACGGAGATCATGAACCCCGACTACACCAAGCTGACCATGGACCTTGGCAGCACTGAGAT
                                                                                                                                                                    CACGGCTACAGCCACCACGTCCCTGCCCAGCATCAGTACCTTCGTGGAGGGCTACTCGAG
                                                                                                                                                                                                                                                    CAACTACGAACTCAAGCCTTCCTGCGTGTACCAAATGCAG-------CGGCCCTT
                                                                                                                                                                                                                                                                                                                                               GCCCGGCTGCATCGCACCCGGCCCGCTGCTGGACCCGCCGATGAAGGCGGTCCCCACGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                1158 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1254 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1638
                                                                                                                                                                                                                                                                                                                                                  1038
                                                                                                                                                                                                                                                                                                                                                                                                1098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1398
                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                     930
                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1458
                                                                                 099
                                                                                                         750
                                                                                                                               720
                                                                                                                                                       810
                                                                                                                                                                               780
                                                                                                                                                                                                     870
                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                     8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                        8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
            8 8
                                                  8 6 8 6
                                                                                                                                                       8 &
                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ⋩
105
                                                                                                                                                                                                                                                                                                                                                                                                                                                           165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              creacadededededeceredadedededaaacerededeacarecradeceredre 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 GCAGCCGGAGACTGGACG-CTGCGGAACCTCTCGGCGGCGCTCTCCCATGAGTTGGGATC 359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       599
                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCGGTGCGCGCCGCGCGCGCGCGGAGCGCCCTCCAGGGCTCACTTTGCAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGACGGTGCCGGCAGTGGCCGTGGAGGTGGGAACAGCGGCGGCATCCTCCCCCCTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCCGGGGAAGCCCGGGCCCTGAGCCTGGACCCTTAGCGGTGCCGGGCAGCA-----CTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       540 CCCGACAAGCCCGGGCGCTGAGCCTGGACCCTCAACAGAGCGGGCCAGCACAGCGGCGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACAGCCCAAGCCAGGACGCCCGCGGAACCTCTCGGCTGTGCTCTCCCATGAGTCGGGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCAGCATCCCCAGCCAGCCGCTGCTCACCGCCTCTGGAGCCGCTGGGTTTGTGCACCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGCCCTTCCGGGACAGCTGTGACTCCCCCCAGTGCAGATTTCGGGACAGCTCTCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAAACTCGCTCTAAAGACGGAACCGCCACAGCACTCAAAGCCCACTGCGGAAGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                         CGAGTCTCCTGCCTCCCGCCCCCCACCAGCGCCTGCTCCTCCGCTCCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTCCGCACACACACT - - TCGCTCTCCCGCGCGCTCACACCCCTCTTGCCCTGAGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCAGCATCCCCCACCAGCC---GCTCACCGCCTCCGGGAGCCGCTGGGCTTGTACACCGC
                                                                                                                                                                                                                                                                                                                                                                                                              CGGAGTCTCCTGCCTCCCGCCCCCACCCCTCCAGCTCCTGCTCCTCCTCCGCTCCCCAT
                                                                                                                                                                                FOR
                                                                                                                                                                                                                                                                                                                                                                                     90;
                                                                                                                                                                                TARGETS
                                                                                                                                                                                                                                                                                                                                                            Score 2500; DB 6; Length 4400;
Pred. No. 0;
0; Mismatches 535; Indels 90
                                                                              RESULT 14

US-10-414-080-2

Sequence 2, Application US/10414080

Publication No. US20030220288A1

GENERAL INFORMATION:
APPLICANT: UNLLICAN, SHANNON E.
APPLICANT: CONNEELY, ORLA M.
APPLICANT: MILBRANDT, JEFFREY

ITILE OF INVENTION: NOR-1 AND NURTY NUCLEAR RECEPTORS AS TARG

ITILE OF INVENTION: ANTI-LEUKEMIA THERAPY

FILE REFERENCE: P02454US1

CURRENT PILING DATE: 2003-04-15

PRIOR PILING DATE: 2003-04-15

PRIOR FILING DATE: 2002-04-17

SEQ ID NOS: 36

SOFTWARE: PATENTIN VEY: 2.1

SEQ ID NO S.

LENGTH: 4400

TYPE: DNA

ORGANISM: RAT

US-10-414-080-2
                                     3711 TTA--TAGACAATTTTGGAAAGCAAGAGAATCAICT 3744
                       TTAAGGAGACAATTTTGGAGGAGCAAGCAAATCTTTT 3723
                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 83.4%;
Matches 3131; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                            106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                576
                                                                                                                                                                                                                                                                                                                                                                                                              46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     456
                       3688
```

g

ઠે g ò

ò

셤 ઠે 8 g ઠે g 장염

ઠે

8 8 8

a

장 유.

	2837 GGATGGGGGGGGGGGTTATAGTTCATGAGGGTTTTCTAAGAAATTGCTAACAAAG 2894	2895 CACTITIGGACAAIGCTAICCCAGCAGGAAAAAAAGGAIAAIAITAACIGIITI 2948 			3066 CTGTATCAAAGGTACGTACGTGCAAACAAGGCAGAAACTTCCTTT 3113 	3114 TAATTICCTICTTITATITIAACAAATGGTGAAAGATGGGGGTTACCTACAAATCA 3173 3111 CTTICTTCTTCTTAAAAAAAAAAAAAAAAAAAAAAAAAA	3174 GACATGGCAAAACAATAATGGCTGTTTGCTTCCATAAACAAGTGCAATTTTTTAAAGTGC 3233 111 GACTTAGCAAAATGATAATGGCTATTCGCTTCCACATACAAGTGCAATTTTTTAAAGTGC 3230	3234 TGTCTTACTAAGTCTTGTTTATTAACTCTTCTTATTCTATAGGAAATAAAAGAGGGG 3293	3294 AGTCATGTTAGCAAATGACACGTTAATATCCCTAGCAGAGGCTGTGTTCACCTTCCCTGT 3353	3354 CGATCCTTCTGAGGTATGGCCCATCCAAGACTTTTAGGCCATTCTTGATGGAACCAGAT 3413	3414 CCCTGCCCTGACTGTCCCAGCTATCCTGAAAGTGGATCAGATTATAAACTG 3463	3464 GATTACATGTAACTGTTTTGGTTGTGT-TCTATCAACCCCACAGAGTTCCCTAAACTTG 3522	3523 CTICAGITATAGTAACTGACTGGTATATICAGAAGCGCCATAAGTCAGT 3575	3576 TGAGTATTTGATCCCTAGATAAGAACATGCAAATCAGCAGGAACT-GGTCATACAGGGTA 3634	3635 AGCACCAGGGACAATAAGGATTTTTATAGATATAATTTAATTT	3688 TTAAGGACAATTTTGGAGGAAGCAATCTTTT 3723 	RESULT 15 US-10-191-803-209 ; Sequence 209, Application US/10191803 ; Publication No. US20040014040A1 ; GENERAL INFORMATION:
qq	දු පු	රු යු	රු සි	& 8	& a	දි දි	<i>&amp;</i> 8	දු දු	& 8	දි දි	& g	& 9	P &	à a	රු සි	у <del>В</del> О	RESULT US-10-; Seque; Publ;
								<u></u> ,				<del></del>		_			<del></del>
1698 IGCAAAATATGTTTGCCTGGCAAATAAAAACTGCCCGGTAGACAAGAGACGTCGAAACG 1757 	rrgrccg         rrgrgcg		CCCTTGT         CCCTTGT	1938 CCGAGCTTTAACAGACTCAACACCCGGAGATCTTGATTATTCCGGATACTGTCCCACTGA 1997 	1998 CCAGGCTGCTGCAGGCACAGATGCTGAGCATGTGCAACAATTCTACAACCTCCTGACAGC 2057 	2058 CTCCATTGATGTATCCAGAAGCTGGGCAGAAAAGATTCCGGGATTTACTGATCTCCCCAA 2117 	2118 AGAAGATCAGACATTACTTATTGAATCAGCCTTTTTGGAGCTGTTTGTCCTCAGACTTTC 2177 			GCATGAT         GTATGAT	CACAGAAAGACATGGGTTAAAAGAACCAAAGAGGGGTGGAAGAGGTATGCAACAAGATCAC	2418 AAGCAGTTTAAAAGACCACCAGAGTAAGGGACAGGCTCTGGAGCCCACCGAGTCCAAGGT 2477 		2538 CCTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATTGACAAGCTCTTCCTGGACAC 2597 		TGCTACGCAGCAAAGGGATAGGTTTGGAAACCTATCATTTCCTGTCCTTCCT	2717 AAAGCAGCTCCTGTAGAAAGCAAAGACTTTCTTTTTTTTT

```
COGOCTOCCOCTAGAGGGCGCCCCGCTGGCCTTCCCGCCTCTCGGCCTCACGCC 1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCAAAATTTTTGCCTGGCAAATAAAAACTGCCCAGTAGACAAGAGACGTCGAAAACGG 1757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1314 CAGCCCAGGCGGCGCCACCACCTGGGCTATGACCCCACGGCCGCAGGCTGCGCTCAGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900 CAGCTGCGAACTCAAGCCCTCCTGCCTGTACCAAATGCCGCCTTCTGGGCCTTCTGGGCCTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GATCAAAGTGGAGGAGGGGGGGGCGCCCAGCTACCATCACCATCACCACCACCACCACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            960 GATCAAGATGGAAGGTCGCGAGCATGGCTACCACCACCACCACCACCATCACCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GACCACTCCAGGCTTCCCCCCCCCGCAGGCGGGGGCGCTGTGGGAACGACGAGCTGCCTCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCCCGGCCGCCCACCACCTCGGCTACGACCCGACGGCCGCTGCCGCCTCCAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAGCTCGTCGTCTGGCGAGGCCACGTGTGCCGGGGGACAACGCCGGCCTGCCAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTACGGCGTGCGAACCTGCGAGGGCTGCAAGGGCTTTTTCAAGAGAACAGTGCAGAAAAA
       CCCCAGCCCCACCATTCAGCGCGCAAGATACCCTCCAGATATGCCCTGCGTCCAAGCCCA
                                                                                                                                                                                ATATAGCCCTTCCCCTCCAGGTTCCAGTTATGCGGCGCAGACATACAGCTCGGAATACAC
                                                                                                                                                                                                                                                                           CACGGAGATCATGAACCCCGACTACACCAAGCTGACCATGGACCTTGGCAGCACTGAGAT
                                                                                                                                                                                                                                                                                                                                                                           CACGGCTACAGCCACCACGTCCCTGCCCAGCATCAGTACCTTCGTGGAGGGCTACTCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CACCACGCCGCCTTCCCCCCCGCAGGCGGGGCGTTATGGGACGAGGCACTGCCCTCGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCCCGGCTGCATCGCACCCGGCCGCTGCTGGACCCCGCCGATGAAGGCGGTCCCCACGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           geeregerigearegerecegacegerecregacececagargaaggeargageeeeear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGCCGGCGCGCTTTCCACTTCAAGCCCTCGCCGCCGCATCCCCCCGCGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1134 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1698
                                                                                                                                                                                                                                                                              810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1338
                                                                                                                                                                                750
                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                           870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      978
                                                                                                                                999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         유
당
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              දු පු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                               ð
                                                                                                                    g
                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACAGCCCAAGCCAGGACGCCCGCGGAACCTCTCGGCTGTGCTCTCCCATGAGTCGGGATC 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       599
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGGCGCTTCGCCTCGCCGGACGTCCGCTCCTCCTACACTCTCAGGCCTCCGCTGGAGAGAC 689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCGGTCGCGCCGCGCGCGCCGCAGCCGGACGCCCTCCAGGGCTCACTTTGCAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCAGCCGGAGACTGGACG-CTGCGGAACCTCTCGGCGGCGCTCTCCCCATGAGTTGGGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGCCCTICCGGGACAGCAGCTGTGACTCCCCCCCAGTGCAGATTTCGGGACAGCTCTCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCCGGT-----GCAGCGCGCGCCCCAGCTGGACGCCCCTCCCGGGCTCACTTTGCAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGACGGTGCCGGCAGTGGCCGTGGAGGTGGGAACAGCGGCGGCGGCATCCTCCCCCCTGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAGCATCCCCAGCCAGCCGCTGCTCACCGCCTCTGGGAGCCGCTGGGTTTGTGCACCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Acceptrocedescade de la contra del la contra de la contra de la contra del la contra del
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAAACTCGCTCTAAAGACGGAACCGCCACAGCACTCAAAGCCCCACTGCGGAAGAGGCCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAAACTCGCTCTAAAGACGGAACCTCCACAGAACCCAAAGCCCCACTGCGGGAGAGCGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGGAGTCTCCTGCCTCCCGCCCCCCCCCTCCAGCTCCTGCTCCTCCGCTCCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGAGTCTCCTGCCTCCGCCCCCCCACCCTCCAGCGCCTGCTCCTCCTCCTCCGCTCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAGCATCCCCCACCAGCC - - GCTCACCGCCTCCGGGAGCCGCTGGGCTTGTACACCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Genbank Accession No. US20040014040A1 NM_031628 US-10-191-803-209
APPLICANT: MENDRICK, Donna
APPLICANT: PORTER, Mark
APPLICANT: JOHNSON, Kory
APPLICANT: JOHNSON, Kory
APPLICANT: JOHNSON, Kory
APPLICANT: HIGGS, Brandon
APPLICANT: ELASHOFF, Michael
TILE OF INVENTY APPLICATION NUMBER: US/10/191,803
CURRENT FILING DATE: 2002-07.10
PRIOR PILING DATE: 2001-07-10
PRIOR PLICATION NUMBER: US 60/303,819
PRIOR PLICATION NUMBER: US 60/305,623
PRIOR FILING DATE: 2001-07-17
PRIOR PLICATION NUMBER: US 60/305,623
PRIOR FILING DATE: 2001-07-17
PRIOR FILING DATE: 2002-04-03
PRIOR FILING DATE: 2002-04-03
PRIOR FILING DATE: 2002-04-03
PRIOR FILING DATE: 2002-04-03
PRIOR PLICATION NUMBER: US 60/377,611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            90;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 4400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 65.9%; Score 2500; DB 7; Length 4
Best Local Similarity 83.4%; Pred. No. 0;
Matches 3131; Conservative 0; Mismatches 535; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    279
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       576
```

ద

ò

셤

ò

a

ò

g

ઠે

8 8 8

g ઠે 원 상 엄 8 G δ

쉽 않.

1277

1253 1337

1217 1193

1019 1097

1037

899 977 959 1157

1073

1313

1397 1373 1457 1433

1493 1577

	•		
			•

```
(without alignments)
8221.646 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,
                                                                                                                                                                                                                                                                                                      US-10-608-863-1
3794
1 ataaatgacgtgccgagaga......gtgtgagtactaggaaggat 3794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Published Applications NA New:*

1: /cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
2: /cgn2_6/ptodata/1/pubpna/USO8_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/USO7_NEW_PUB.seq:*
4: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
5: /cgn2_6/ptodata/1/pubpna/USO9_NEW_PUB.seq:*
6: /cgn2_6/ptodata/1/pubpna/USO9_NEW_PUB.seq:*
7: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
8: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
9: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
10: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
11: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
12: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/USO1_NEW_PUB.seq:*
                                                                                                                                                                               March 17, 2006, 23:19:27 ; Search time 1076 Seconds
GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8023312 segs, 1165852854 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                       - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                           IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                             Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                       OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Database :
                                                                                                                                                                                                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Searched:
                                                                                                                                                                                  Run on:
```

10	ind is	deri	q ved p *	and is derived by analysis of *	sia	of the total score distribution SUMMARIES	bution.
NO.	Score		Query Match	Query Match Length	DB	ID	Description
-	2501.6	9.	65.9	4457	12	US-11-136-527-2981	Segmence 2981. An
7	944	ω.	24.9	4275	12	US-11-136-527-2433	2433,
m,	495.6		13.1	2802	12	US-11-136-527-2526	Sequence 2526, Ap
7	495.4		13.1	1797	σ	US-11-198-640A-3	3. Appl
œ,	488		12.9	1797	σ	US-11-198-640A-1	Sequence 1, Appli
ø	ř	367	7.6	2464	σ	US-11-245-147-139	Sequence 139, App
7	36	367	7.6	2464	12	US-11-091-883-107	Sequence 107. App
œ	365.2	?	9.6	3518	12	US-11-136-527-2799	Sequence 2799. Ap
σ	342.6	9.	9.0	1821	6	US-11-245-147-64	Sequence 64. Appl
10	109.6	9.	2.9	2879	12	US-11-124-368A-166	Sequence 166, App
7	109.4	4.	5.9	2330	12	US-11-166-412-3	Sequence 3, Appli
12	109.4	4.	2.9	3113	12	US-11-091-883-30	Sequence 30. Appl
13	109	4.	5.9	3113	12	US-11-091-883-176	
14	109.4	4.	5.9	4916	12	US-11-166-412-4	Sequence 4, Appli
12	109.4	4.	2.9	5054	12	US-11-166-412-5	
16	ភ	108	2.8	1251	12	US-11-136-527-996	6
11	106.6	9.	2.8	1400	12	US-11-136-527-4231	4231,
18	106.6	9.	2.8	1604	12	US-11-136-527-135	135, A
13	106.2	ς.	2.8	2130	12	US-11-136-527-2138	2138,
20	1	106	2.8	1563	12	US-11-136-527-1995	Sequence 1995, Ap

Result

Sequence 2896, Ap Sequence 2594, Ap Sequence 319, App Sequence 519, App Sequence 518, App Sequence 52, Appl Sequence 13, Appl Sequence 11, Appl Sequence 11, Appl Sequence 12, Appl Sequence 22, Appl Sequence 22, Appl Sequence 21, Appl Sequence 11, Appl Sequence 21,	
US-11-136-527-2896 US-11-136-527-2894 US-11-136-527-594 US-11-136-527-519 US-11-136-527-614 US-11-136-527-4614 US-11-136-527-4614 US-11-136-527-4614 US-11-136-527-1966 US-11-166-412-11 US-11-166-412-12 US-11-166-612-12 US-11-166-612-12 US-11-116-912-1114	US-11-136-527-3577 US-11-136-527-1897
112222222222222222222222222222222222222	12
2510 11931 11931 11931 1000 1000 1000 1000	1512 2007
	2.1
88 893333 72 44 44 44 89 89 89 89 89 89 89 89 89 89 89 89 89	80.2 80.2
12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>4.4.</b> 5.

## ALIGNMENTS

```
181 GCCGGTGTCGCGCCGCGCGCGCGCGCGCCCCCTCCAGGGCTCACTTTGCAACG 240
             ; Sequence 2981, Application US/11136527; Scholo 2981, Application US/11136527; Publication No. US20050287570A1; GENERAL INFORMATION; APPLICANT: Wyeth Mounts, William M; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes; FILE REFERENCE: 031896-041000 (AM101086); CURRENT APPLICATION NUMBER: US/11/136,527; CURRENT FILING DATE: 2005-05-25; PRIOR PALICATION NUMBER: US 60/574,294; PRIOR FILING DATE: 2005-05-26; NUMBER OF SEQ ID NOS: 362830; SOFTWARE: Patentin version 3.2; SEQ ID NO 2991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       106 ACACAGACGCGCTCACCCCCTCACTCGCACACACACACAAGCGCGCACACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTCCGCACACACACT--TCGCTCTCCCGCGCGCTCACACCCCTCTTGCCCTGAGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCCGGT-----GCAGCGCGCGCGCAGCTGGACGCCCCTCCCGGGCTCACTTTGCAACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       46 CGGAGTCTCCTGCCTCCCGCCCCCCACCCTCCAGCTCCTGCTCCTCCTCCTCCTCCCCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 CCGAGTCTCCTGCCTCCCGCCCCCCCCTCCAGCGCCTGCTCCTCCTCCTCCCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 82.9
Matches 3132; Conservative
                                                                                                                                                                                                                                                                                                                                                                ; UKGMATGET 1000 ; US-11-136-527-2981
US-11-136-527-2981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             224
                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Š
```

22;

105

9

165

223 180 278

CTGACGGTGCCGGCAGTGGCCGTGGAGCTGGGAACAGCGGCGCGCATCCTCCCCCCTGGTC 338

279

ð

8 8 8 8 8 8 8 8

1434   ACCCUTGGARGCCCCCCCCGGGCCCCCCCCCCCCCCCCCCCCCCC
8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
300 398 419 419 419 515 529 629 629 629 629 629 629 629 6
131 CTGACGAGCCAGCAGCGGGGAACCTCGGGGAACCTCGGCGGCCATCGCTGGGGTGTGTGGGGGGGG